

MILLVILLE HIGH SCHOOL



“Home of the Thunderbolts”

2013-2014 Course Description Book



MILLVILLE HIGH SCHOOL

COURSE DESCRIPTION BOOK

2013-2014

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NOTE: Although every effort is made to carefully proofread this book and check all data contained herein, it is possible that typographical and other errors may exist. School personnel and Board policies are the final authority for all data. We apologize for any inconvenience.

INTRODUCTION

Dear Parents and Students,

The Millville High School Course Description Book has been prepared to provide information and guidance in planning the student's high school program of studies. Please read the opening pages (3 through 9) carefully to get an understanding of our school's total education program.

One of the most important decisions that a student will make during his/her high school career is the selection of appropriate courses. The selection that a student makes should be given very serious consideration. These choices will undoubtedly influence the student's future educational goals more than any other decision. Before deciding on a course selection, please read the general graduation requirements and give special consideration to the student's personal goals, abilities, and motivation.

Please use the course prerequisites, which follow each course description and grade recommendations, as a guide to selecting courses. Students and parents should realistically evaluate the student's ability level before making course selections.

Any student whose parent or guardian presents to the school principal a signed statement that any part of the instruction in health, human development, sex education, or marriage and family living is in conflict with his/her conscience or sincerely held moral or religious beliefs, shall be excused from that portion of the course where such instruction is being given, and no penalties as to credits for graduation shall result. Those students who exercise this option will be assigned to the school library for independent study in Health Education.

It should also be noted that a 1987 State law makes mandatory the teaching of Drug Education to every student in New Jersey's schools. At Millville Senior High School and Memorial High School, all students receive a comprehensive health course every year. Ten hours of Drug Education is taught to all students each year.

Please feel free to contact the Guidance Department for help in the student's course decision-making process. The Guidance Office is open from 7:30 a.m. to 3:30 p.m. Monday through Friday; also special evening hours are in place. The telephone number for the Senior High Guidance Department is (856) 327-6055, and the Memorial Guidance Office phone number is (856) 327-6083.

NOTE: In order for an elective course to be offered, sufficient student enrollment must occur. Therefore, even though a course may be listed in this book as an offering for the school year, the school district reserves the right to cancel a course if too few students elect to take it. Additionally, some courses listed in this book are pending Board of Education approval and possibly may not be offered.

HIGH SCHOOL PROGRAM PLANNER WORKSHEET

Use the following sheet when planning your high school course selections

In order to receive a diploma from Millville Senior High School, students must fulfill the minimum requirements established by the New Jersey Department of Education and the Millville Board of Education. To graduate from Millville Senior High School students must:

1. Pass all required state assessments
2. Earn a minimum of 125 credits
3. Fulfill all obligations (i.e. attendance, detentions, fines, etc.)
4. Pass the following courses

	Grade 9	Grade 10	Grade 11	Grade 12	Required Years for Graduation	Credits for Graduation
English					4	20
P.E./Health					4	20
Mathematics					3	15
Science					3	15
U.S. History					2	10
World History					1	5
World Language					1	5
Visual/Fine/ Performing Arts					1	5
Practical Arts					1	5
Electives – any combination of above					4	20
Financial Literacy					Required for the Freshman Class of 2010-2011	5
Total Credits						125

MILLVILLE HIGH SCHOOL GRADUATION REQUIREMENTS

Below is a table displaying the course/credit requirements for Millville High School students. It is organized by the school year that a student begins 9th grade and reflects the changes implemented by the NJ Department of Education.

	Course and credit requirements for all students entering grade 9 in:					
	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
ENGLISH	20 credits (English 1, 2, 3, 4)					
MATHEMATICS	15 credits including Algebra I or the content equivalent (IMP program)		15 credits including Algebra I and Geometry or the content equivalent		15 credits including Algebra I and Geometry or the content equivalent and a third year of math that builds on the concepts and skills of Algebra and Geometry	
SCIENCE	15 credits including at least five credits in Biology		15 credits including at least five credits in Biology and one additional science course which shall include Chemistry, Environmental Science, or Physics		15 credits including at least five credits in Biology; an additional laboratory/inquiry-based science course including Chemistry, Environmental Science, or Physics; and a third laboratory/inquiry-based science course	
SOCIAL STUDIES	15 total credits including 5 credits each in World History, US History 1, US History 2					
FINANCIAL, ECONOMIC, BUSINESS, AND ENTREPRENEURIAL LITERACY	No state requirement		Financial Literacy/Business Principles			
PHYSICAL EDUCATION/HEALTH	5 credits of Physical Education/Health during each year of enrollment					
PRACTICAL ART (CTE)	5 credits					
VISUAL AND PERFORMING ARTS	5 credits					
WORLD LANGUAGES	5 credits					
TOTAL CREDITS	125					

ADDITIONAL REQUIREMENTS

1. Any student who fails a required subject must pass the course before graduation. Failed Health and Physical Education courses should be taken during summer school, (if summer school is offered).
2. No student shall participate in commencement activities until all requirements are met including any student who owes credit completion, and/or financial obligations.
3. A full semester subject carries 5 credits.
4. It is essential that a student be aware of his/her current status. Guidance Counselors are available throughout the year to determine a student's exact number of credits. Please do not hesitate to contact the Guidance Office if there are any questions or concerns regarding the matter of course credits.

- Minimum required credits for grade level status
Sophomore – 25 credits
Junior – 45 credits
Senior – 75 credits

- Participation in grade level activities (i.e. proms/dances, class offices, class trips, etc.) will be determined by credits earned above.

4-YEAR COLLEGE PREPARATORY CURRICULUM

Most colleges require at least 16 **college prep** or **advanced classes** while in high school. The minimum high school units required are:

- | | |
|-----------------------|--|
| • English | 4 |
| • Mathematics | 3 (Algebra 1, Geometry, Algebra 2 or higher) |
| • World Language | 2 (3 or 4 years recommended) |
| • Laboratory Sciences | 2 |
| • Social Studies | 2 |
| • Academic Electives | 3 |

Students are considered for college admission based on grades and strength of the program they have taken. It is recommended that students take the most challenging academic program in which they can be successful.

CHANGE OF COURSE POLICY

The Guidance Department will allow changes in course selections which are registered for until the 15th of July. The only exceptions to this will be where a student has registered for a sequence course and fails the prerequisite course. Students will be contacted by telephone/mail to see if they wish to repeat the failed subject or would rather select another one. ***Seniors who have met all graduation requirements (including passing the HSPA) may request a block 4 study hall if they intend to seek early release.***

Millville High School has developed the following school procedure on student schedule changes. Students are given an opportunity during the spring to choose courses under the supervision and counseling of our Guidance Department. After a tentative schedule is developed by the student and his/her counselor, the student signs the course selection sheet and is instructed to take it home to be reviewed and approved by his/her parents or guardian. The parents/guardian are asked to sign the course selection sheet and return it to the school within one week. If there are any questions, parents/guardians are invited to call the student's Guidance Counselor to review the schedule.

- 1) **In Advanced Placement courses and Advanced Level courses, due to limited enrollment and highly selective standards, once a student makes a decision to enroll, that student will not be permitted to drop the course.**
- 2) If a student requesting fourth block early release or a study hall has a conflict in his/her schedule, the Guidance Department reserves the right to change this request to alleviate the conflict.

If a student does withdraw from a class the following consequences will appear on the Official Transcript:

First 15 days of the class: Course does not appear on the transcript

After the first 15 days: *WP (Withdraw Passing)
 *WF (Withdraw Failing)

COURSE WEIGHTING SYSTEM

The weighting system developed by a cross section of school administrators, teachers, and students provides for half-weighted (0.5) and full-weighted (1.00) courses in our grade scale. Thus, students taking prerequisite courses to our most advanced courses (advanced placement courses) will receive benefit in their grade point average calculation. The following courses are included in the weighted system.

Science:	Half-Weighted Courses – Advanced Biology, Advanced Chemistry, Advanced Physics, Biology 2 Full-Weighted Courses – AP Biology, AP Chemistry, and AP Physics 1, AP Physics 2 (Pending Board Approval)
English:	Half-Weighted Courses – Advanced English 1, Advanced English 2, Advanced English 3 Full-Weighted Course – AP English 4.
Math:	Half-Weighted Courses – Advanced Geometry, Advanced Algebra 2, Pre-calculus, Algebra 3/ Trigonometry, Statistics Full-Weighted Course – AP Calculus I, AP Calculus II (Pending Board Approval)
Social Studies:	Half-Weighted Courses –Advanced US History 1, Advanced US History 2, Advanced World History Full-Weighted Courses – AP United States History, AP Psychology, AP Macroeconomics, AP - World History (Pending Board Approval)
World Lang.:	Half-Weighted Courses – Third year of World Languages Full-Weighted Courses- Fourth and Fifth year of all World Languages
CTE:	Half-Weighted Course – Accounting 3 Full Weighted Course – AP Computer Science
Fine/Perf. Arts:	Half-Weighted Course – Music Theory I Full Weighted Courses – AP Studio Art, AP Music Theory

GRADE POINT AVERAGE/RANK IN CLASS

A student's Grade Point Average (GPA) and Rank in Class are determined in the following manner:

QUALITY POINT (QP) SYSTEM

<u>Course Grade</u>	<u>Non-Weighted</u>	<u>Half-Weighted</u>	<u>Full-Weighted</u>
A+ 100-98	4.25	4.75	5.25
A 97-95	4	4.5	5
A- 94-92	3.75	4.25	4.75
B+ 91-89	3.25	3.75	4.25
B 88-86	3	3.5	4
B- 85-83	2.75	3.25	3.75
C+ 82-80	2.25	2.75	3.25
C 79-77	2	2.5	3
C- 76-74	1.75	2.25	2.75
D+ 73-71	1.25	1.75	2.25
D 70-68	1	1.5	2
D- 67-65	0.75	1.25	1.75
F 64-0	0	0	0

Students who receive a grade of 50 or lower for the first half of any course during the school year will receive a 50. During the second half of a course and on the final exam a student will receive their earned numerical grade.

The Total Quality Points received in each course are multiplied by the course's credit value. The Quality Points are totaled and divided by the number of credits attempted. This determines a student's GPA. Rank in Class is developed for all students based on the Grade Point Calculation – Highest to Lowest. All courses taken by the students are included in this process. This ranking is used primarily for college entrance applications. Grade Point Averages are used to reflect accurately, in class rank, the academic difficulty of a student's selected program of study and the student's degree of success during this course of study. Grade Point Average may be a factor used by the Guidance Department in scheduling decisions regarding overcrowded elective programs. Seniors' rank in class at the end of the 3rd marking period will be used for senior awards, senior-related programs, and during the Commencement Program.



PARTNERSHIP



Millville High School
and
Cumberland County College

Students may register for the following courses and earn college credits along with high school credits for a fraction of the cost of college.

2013-2014 Dual Credit Courses:

1. Anatomy and Physiology 2
2. AP Biology
3. AP Chemistry
4. AP Psychology
5. Elements of Healthcare Careers
6. Forensic Science (Pending CCC Approval)
7. Justice Studies
8. Legal and Ethical Issues in Healthcare
9. Medical Terminology
10. Principles of Nutrition
11. Statistics
12. AP U.S. History
13. AP English
14. CADD 1,2,3
15. Automotive Technology 3 (through Camden County College, ATC, and UTI)
16. Engineering Technology 3

ATHLETIC ELIGIBILITY GUIDELINES

All students are responsible for knowing the N.J.S.I.A.A. Eligibility Requirements pertaining to interscholastic sports. If a student intends to participate in any team sport at Millville Memorial High School or Millville Senior High School, he/she must obtain a copy of the New Jersey Interscholastic Athletic Association's Eligibility Requirements from the athletic director, school nurse, or coach of the sport in which he/she intends to participate. New Jersey Code now requires all candidates for an athletic team to have a physical examination prior to the first practice session. This includes all involved in weight training/conditioning and any athlete under the direction of a coach in voluntary workouts/practices during the summer. The physical examination must be performed by the student's primary healthcare provider (M.D., D.O., Advanced Practice Nurse or Physician's Assistant). The results of the examination must be recorded on the School Sports Eligibility form. These forms are available in the school nurse's office, the main office, or the Athletic Director's office.

The form must be completed and signed by the parent/guardian, and must also be completed and signed by the primary healthcare provider. The healthcare provider's signature must be legible. Once the form is completed, it must be returned to the school nurse, in order to be approved by the school physician. Please schedule an appointment as soon as possible to ensure that your child is able to participate in the first scheduled practice.

Students choosing not to go to their primary physician may attend one of the free physicals offered by the school. The school nurse at the Senior High School is available to answer questions at 856-327-6046. The athletic department is also available to answer questions at 856-327-6059.

N.J.S.I.A.A. ELIGIBILITY REQUIREMENTS

- 1) A student athlete is eligible for only eight consecutive semesters from the date of his/her first entrance into ninth grade.
- 2) A student athlete must not have reached the age of 19 prior to September 1st of the current school year to participate on the varsity or junior varsity teams. Freshman student-athletes must not have reached the age of 16 prior to September 1st of the current school year to participate on freshman teams.
- 3) To be eligible during the fall and winter seasons, a student athlete must pass 25% of the State requirements for graduation (see below).
- 4) To be eligible for the spring season, a student athlete must pass 12.5% of the State requirements for graduation (see below).
- 5) Any summer work (for make-up purposes) completed and approved by the school district before the sixth school day in the semester starting September, may be used for eligibility purposes.

The New Jersey State Board of Education has adopted revised regulations addressing high school graduation. The following provides you with an annual breakdown of how this revision will affect scholastic eligibility (Article V, Section 4.E-N.J.S.I.A.A. Bylaws for interscholastic athletics).

First Semester Eligibility (Fall & Winter Seasons): 10th - 12th Grade – Earned 30 Credits – Previous Year
9th Grade – Exempt from the Credit Rule

Second Semester Eligibility (Spring Season): 9th – 12th Grade – Earned 15 Credits – Previous Semester

LOCAL ELIGIBILITY STANDARDS (MILLVILLE SCHOOL DISTRICT)

We, at Millville Senior High School & Memorial High School, feel strongly that students should maintain a proper academic perspective throughout their high school years. Therefore, the following local (Millville High School) Eligibility Standards are in place and explain the needs of athletes experiencing academic problems while participating in a sport.

- 1) **One course failure or one incomplete grade during a marking period:** Athletic eligibility is to be determined by the head coach of the sport and the student athlete will be placed on probation (indefinite period at the coach's discretion).
- 2) **Two course failures or two incomplete grades (or any combination thereof) during a marking period:** The student athlete is automatically ineligible for one marking period until his/her grades become available or incomplete grades are made up satisfactorily.

Transfer students shall be subject to the above guidelines based on the transcript which is used to determine N.J.S.I.A.A. eligibility.

Student-athletes shall be in attendance at school by 9:09 AM in order to participate in practice or game scheduled for that respective day (seniors with an Early Release must arrive by 7:40 AM).



CAREER AND TECHNICAL EDUCATION DEPARTMENT

Programs of Study & Course Sequencing

ACCOUNTING:

Accounting 1
Accounting 2
Accounting 3

AUTOMOTIVE TECHNOLOGY:

Automotive Technology 1
Automotive Technology 2
Automotive Technology 3

CADD:

CADD 1 *
CADD 2 *
CADD 3 *

CHILD CARE:

Child Development
Child Care Careers (10-credits)

COMPUTER APPLICATIONS:

Microsoft Office 1
Microsoft Office (2010) 2
Advanced MS Office (2010/MOS Certification) 3

COMPUTER PROGRAMMING:

Computer Science 1
Computer Science 2
AP Computer Science

CONSTRUCTION TECHNOLOGY:

Construction Technology 1
Construction Technology 2
Construction Technology 3

CULINARY ARTS:

Culinary Arts 1
Culinary Arts 2
Culinary Arts 3

ENGINEERING TECHNOLOGY:

Engineering Technology 1
Engineering Technology 2
Engineering Technology 3 *

ENTREPRENEURSHIP:

Intro to Business
Entrepreneurship 1
Entrepreneurship 2

FINE & STUDIO ARTS:

Desktop Publishing 1
Desktop Publishing 2
Desktop Publishing 3

HEALTH SCIENCE:

Elements of Healthcare Careers *
Principles of Nutrition *
Healthcare Careers/CNA Program (15-credits)

JOURNALISM:

Journalism I: Newspaper
Journalism II: Broadcast Journalism
Journalism III: Yearbook

LAW ENFORCEMENT:

Law Enforcement
Justice Studies *

MARKETING:

Introduction to Business
Marketing 1
Marketing 2: Sports Marketing

SEWING:

Sewing 1
Sewing 2
Sewing 3

WEB PAGE DESIGN:

Web Page Design 1
Web Page Design 2

WOODWORKING TECHNOLOGY:

Woodworking Technology 1
Woodworking Technology 2
Woodworking Technology 3

OTHER COURSE OFFERINGS:

Digital Photography
Legal & Ethical Issues in Healthcare *
Financial Literacy

* *Indicates Course can be taken as dual credit.*

CAREER AND TECHNICAL EDUCATION DEPARTMENT

Business, Technology & Vocational Courses

The Career and Technical Education Department offers a wide variety of educational programs, which reflect the needs, standards, and aspirations of the students, parents, community, and potential employers. It is the goal of the CTE Department to provide students with the necessary marketable skills and training to function in a competitive, modern society. These skills in business, technology, or vocational education will assist students in their endeavors to pursue post-secondary opportunities.

NOTE: The Career and Technical Education Department has also established Dual Credit and Tech. Prep. articulation agreements with several colleges, including Cumberland County College and Camden County College. Dual credit courses are college courses taught on the high school campus by high school teachers. Students who participate in the dual credit option are required to pay college tuition costs, which are offered at a reduced rate. Those who choose to take advantage of the dual credit opportunity and pass the college course will receive credit towards high school graduation requirements, as well as college credit from the partnering post-secondary institution simultaneously. Dual credit students also receive an official college transcript from the post-secondary school.

Tech. Prep. programs offer high school students an opportunity to earn college credits if they plan to major in that course, and pursue post-secondary education at the articulated college. To be eligible for Tech. Prep. credits, students must matriculate into a degree program at the community college within 18-months following graduation from high school. The Tech. Prep. classes taken in high school must be in the same declared degree program to qualify. Both of these agreements enable students to obtain college credit for skills and proficiencies mastered at the high school level. Students should consult their guidance counselor for class selections that will increase his/her educational options.

FINANCIAL LITERACY

***This is a required course for all students who began 9th grade in 2010-2011 and all subsequent years.**

FINANCIAL LITERACY

5 CREDITS

Students will receive practical information and skills related to career choices and living on one's own. Personal management skills related to paychecks, income taxes, insurance, and credit will be studied. Students will also learn to recognize and develop traits crucial to the workplace environment, such as employer expectations, compromise, attitude, and getting along with co-workers. Included with the curriculum are presentations from recognized speakers representing a variety of careers, and on-line simulation known as Virtual Business.

BUSINESS EDUCATION

All of the Business Courses below will fulfill a Practical Arts Elective required for Graduation

ACCOUNTING I

5 CREDITS

Students are introduced to basic concepts and practices of accounting and double-entry bookkeeping. Actual business transactions are analyzed and their entry into financial records is demonstrated. Accounting will allow the student to build upon math skills while learning overall accounting concepts, principles, and automated accounting procedures.

Successful completion of this course will entitle students to receive credit at Cumberland County College through the Tech. Prep. Program.

ACCOUNTING II

5 CREDITS

This course is the next level in the accounting process and is designed to give increased technical competence to students who have an interest in becoming more proficient in accounting. The content of this course includes an interpretation of payroll records, government reports, inventory control, tax accounting, and financial statements for a partnership. Students will be instructed on how to utilize the computer in solving accounting problems. No previous computer knowledge is required. Calculators are used throughout the course.

Successful completion of this course will entitle students to receive credit at Cumberland County College through the Tech. Prep. Program.

Prerequisite: Successful completion of Accounting I

ACCOUNTING III

5 CREDITS

Half weighted course. Students will be provided with a more in-depth study of the accounting fundamentals that were studied in Accounting I and II. Students will be required to solve advanced and complex accounting problems. Emphasis is placed on accounting for business corporations. Two corporate accounting simulations help the student demonstrate knowledge of the corporate accounting structure. Calculators are used throughout the course. **(For Juniors and Seniors Only)**

Successful completion of this course will entitle students to receive credit at Cumberland County College through the Tech. Prep. Program.

Prerequisite: Successful completion of Accounting II

INTRODUCTION TO BUSINESS

5 CREDITS

Introduction to Business is an introductory business course which presents students with various aspects of the business world and prepares them for the workforce. Principles of financial, economic, business, and entrepreneurial literacy are presented. Students learn about the economy, how businesses satisfy the wants and needs of consumers, business ethics, entrepreneurial and marketing education, and social responsibility. This course outlines types of businesses, ownership, organizational structure, and technology's impact on business. It identifies the various groups that affect business, government, financial institutions, and different nations, as part of our global economy.

Introduction to Business prepares students for the workforce by introducing how businesses handle human relations and cultural differences. It shows how businesses manage financial and technological resources. In addition, this course outlines how one develops a personal financial/career plan and actually obtains employment. It encourages students to become educated consumers and responsible citizens.

Students learn the fundamental, financial concepts pertaining to earning, spending, saving, and investing money. Strategies on how to plan a budget, manage checking and savings accounts, prepare income tax forms, and invest in stocks, bonds, and real estate will be presented. This course also introduces students to buying vehicles, property, life, and health insurance. Various Microsoft Office applications, including MS Word, Excel, and PowerPoint are utilized to develop career plans, presentations, and financial spreadsheets.

Introduction to Business is a prerequisite for Entrepreneurship I and Marketing I.

ENTREPRENEURSHIP I

5 CREDITS

Do you want to own your own business or be your own boss? If so, Entrepreneurship I will present both the excitement and challenges of being an entrepreneur. Students will learn how to go into business for themselves, and what characteristics are needed to be successful. Research, planning the venture, and preparing a business plan will enable you to better understand the market. Students will be able to select the form of their business organization, a location, financial planning, and administration of the company using a program called Virtual Business. The uniqueness of each small business and the steps to earning a profit are emphasized. Last, this course will discuss possible marketing and promotion strategies that encourage profit, as well as how to outsmart the competition.

Prerequisite: Successful completion of Introduction to Business.

ENTREPRENEURSHIP II

5 CREDITS

Once the doors of a business are opened, the entrepreneur generally takes on the role of manager. Entrepreneurship II presents a broad overview of business organizations, types of ownership, and the primary functions of management: planning, organizing, staffing, directing, and controlling using a program called Virtual Business. Managing the finances of a business is a crucial piece of the entrepreneurial puzzle. Locating funding is often the most difficult task when starting out. Once the business is up and running, cash flow, assets, profits, expenses, and taxes must be managed carefully. The final unit of this course exposes students to the risks that entrepreneurs face and explains how to deal with them constructively. Social and ethical responsibilities that affect all businesses, small and large, are discussed. **(For Juniors and Seniors Only)**

Prerequisite: Successful completion of Entrepreneurship I

MARKETING I

5 CREDITS

This course presents an introduction to the technical areas of marketing, distribution, and services. Training techniques are provided in : selling and retailing, business operations and procedures, business communication, advertising, human relations, and merchandise information. Job-seeking techniques, career development, and employee/employer responsibilities are emphasized.

Prerequisite: Successful completion of Introduction to Business.

MARKETING II: SPORTS & ENTERTAINMENT MARKETING

5 CREDITS

This marketing course deals with the promotion of the sports and entertainment industries. Students will learn about the role sports play in our society and how to effectively market the teams to the public. Amateur and professional sports, the role of agents and managers, and ethics will be discussed. Endorsements, community involvement, public relations, and careers in sports marketing will be explored. The travel and entertainment industry will also be examined. Emphasis is placed upon group and independent work. **(For Juniors and Seniors Only)**

Prerequisite: Successful completion of Marketing I





TECHNOLOGY EDUCATION

All of the Technology Courses below will fulfill a Practical Arts Elective required for Graduation

REQUIREMENTS FOR COMPUTER SCIENCE

This technical computer program of study includes a lot more than computer programming skills, although programming does play a very important role. Problem-solving skills receive emphasis from the first day of class. The goal is to learn to use the computer as a tool to solve science, mathematical, and related problems. There are three courses available in Computer Science, which must be taken in sequence.

COMPUTER SCIENCE I

5 CREDITS

Students who elect this course will have an introduction to object-oriented computer programming through the study of Microsoft's Visual Basic.NET programming language. This course will emphasize good programming practices and will give students the foundation to produce well-written Windows applications. The basic concepts and methods of object-oriented programming will be presented along with the fundamentals of the VB.NET Integrated Development Environment. Students will be acquainted with the three-step process of building Windows applications. Students will complete practical problem-solving scenarios that will illustrate good application building techniques. Students will take advantage of the many capabilities of building applications in a graphical environment. Upon completion of this course, students will have a firm knowledge and understanding of Microsoft Visual Basic.NET and will be able to develop a wide variety of Windows applications.

COMPUTER SCIENCE II

5 CREDITS

Students will continue with their study of computer programming through the introduction of the Java programming language. This course emphasizes object-oriented programming practices and will give students the foundation to produce well-written console applications implementing BlueJ and Eclipse. The thrust of object-oriented programming includes classes and methods, in addition to concepts such as encapsulation, polymorphism, and inheritance. Students will complete practical problem solutions that will illustrate good application building techniques. Upon completion of this course, students will have a firm knowledge and understanding of Java.

Prerequisite: Successful completion of Computer Science I

ADVANCED PLACEMENT (AP) COMPUTER SCIENCE

5 CREDITS

Full weighted course. This course is offered to the serious computer science student who wishes to go beyond the study of Computer Science I and II. All students who are planning to pursue a career involving computer programming or computer engineering, or who find excitement in the study of programming should take this course. The software implemented will include BlueJ and Eclipse, which has full supportive materials for the Advanced Placement Case Study. Students will be given the opportunity to work with the AP Case Study as a supplement to the text/lab work presented. Upon completion of this course, students may opt to take the AP exam for college credit. **(For Juniors and Seniors Only)**

Prerequisites: Successful completion of Computer Science II and two years of Math

DESKTOP PUBLISHING I

5 CREDITS

Computer skills are an essential and integral part of the 21st Century. Desktop Publishing I is a first level, five credit course that will provide students the opportunity to grasp the basics necessary to creating, enhancing, and publishing professional documentation. Through progressive and interactive exercises students will learn programs such as In-Design and Publisher and how to work and print documents, text, and objects, while acquiring the ability to enhance varying publications.

DESKTOP PUBLISHING II

5 CREDITS

Desktop Publishing is a course which will acquaint students with graphic design techniques, principles of page layout and design, and desktop publishing terminology and applications using programs such as In-Design, Publisher and Illustrator Photo Shop. Students will create a variety of documents such as flyers, brochures, newsletters, and student business cards using industry-standard desktop publishing software, graphics, and designs. This course will provide students with entry-level skills.

Prerequisite: Successful completion of Desktop Publishing I.

DESKTOP PUBLISHING III

5 CREDITS

This course is an extension of Desktop Publishing II as it continues to use In-Design, Publisher, and Illustrator Photoshop. Students will learn how to define desktop publishing software and complete in-depth tasks related to the planning and creation of a professional publication and website. In addition, students work on projects for the school that are client-based to replicate real-world experiences. **(For Juniors and Seniors Only)**

Prerequisite: Successful completion of Desktop Publishing I I

DIGITAL PHOTOGRAPHY

5 CREDITS

This course familiarizes the students with the photo-editing computer application, Adobe Photoshop. Although photography is a creative art, there are fundamentals which must be mastered before expression of personal artistic styles can be applied. Various types of digital photo images will be altered using the tools of Photoshop. As their editing knowledge increases, students will be assigned independent digital camera projects. **(For Juniors and Seniors Only)**

JOURNALISM I: NEWSPAPER**5 CREDITS**

This course is designed to combine journalistic theory and practice. Students will be expected to write publishable articles for the Millville High School newspaper, *The Tattler*. In addition to the writing of news articles, a number of tests and projects will be required of all students in this course.

Prerequisite: A grade of "C" or better from the previously taken advanced or college preparatory level English course is strongly recommended.

JOURNALISM II: BROADCAST JOURNALISM**5 CREDITS**

This course will be the first step for students wishing to become a top-notch news anchor and/or broadcast journalist. It will focus on television and video production performance and will involve news anchor training, interviewing techniques, story writing, and reporting. Students will receive hands-on training by creating and producing media segments using video equipment and computer technology for critique and review. Students will also have the opportunity to create, edit, and produce segments while they experience the roles of: directing, audio editing and mixing, technical directing, and camera set-up/operation. **(For Juniors and Seniors Only)**

Prerequisite: Successful completion of Journalism I

JOURNALISM III: YEARBOOK**5 CREDITS**

This course is designed, partially, to deal with the planning, designing, and production of the school yearbook, the "Torch." Students are required to design layouts, take photographs, crop pictures, write various copy, and participate in the marketing of the yearbook. After the final deadline, students will also be responsible for advanced publication methods for creating travel brochures, greeting cards, business cards, letterheads, etc. Students must have a good working knowledge of the English language. Students must also possess excellent mathematical skills. Seniors who take this course should be somewhat computer literate and willing to learn and work with advanced publication programs. **(For Seniors Only)**

Prerequisites: Successful completion of Journalism II

MICROSOFT OFFICE I**5 CREDITS**

Microsoft Office I incorporates the four primary software applications of Microsoft Office 2010, in addition to a career component. Learning Microsoft Office provides the fundamental computer skills for students to be successful both in the workplace and in college courses that demand top, computer technology skills. Students will also participate in career exploration where they will create their own resume or qualifications brief; perform a job search using the Internet; compose a letter of application; become familiar with the interview process, and compose a follow-up letter. This employment simulation will prepare students for full or part-time employment.

Successful completion of this course will entitle students to receive credit at Cumberland County College through the Tech. Prep. Program.

MICROSOFT OFFICE 2**5 CREDITS**

Today's job market and college courses demand top computing skills in Microsoft Office. Learning Microsoft Office 2010 can help students in today's tough job market or to meet with success in college courses that require computer skills. Students will become proficient in Microsoft Word—a word processing program that creates documents such as letters, reports, essays, and memos; Excel—a spreadsheet program that organizes, analyzes, and attractively presents data such as a budget or sales report; Access—a database program that stores and manages large collections of information; and PowerPoint—a program that designs professional presentations. These integrated programs can be used separately or together to create professional-looking documents and manage data.

Successful completion of this course will entitle students to receive credit at Cumberland County College through the Tech. Prep. Program.

Prerequisite: Successful completion of Microsoft Office I

ADVANCED MICROSOFT OFFICE 2010/MOS CERTIFICATION**5 CREDITS**

Advanced Microsoft Office 2010 is designed to prepare students to successfully pass the Microsoft Office Specialist (MOS) certification exam. To earn a MOS certification, students must pass one or more of the four tested areas. The MOS certification program certifies a level of expertise with each of the four Microsoft Office applications, including: Word, Excel, PowerPoint, and Access. Students will be able to earn any of the three levels of certification available: Specialist, Expert, and Master. MOS certification exams provide a valid and reliable measure of technical proficiency and expertise by evaluating students' overall comprehension of the Microsoft Office 2010 programs, their ability to use advanced features, and the ability to integrate Microsoft Office programs with other software.



By earning a Microsoft Office Specialist (MOS) Certification credential, you can prove your expertise in using the latest Microsoft Office 2010 applications. Certification can help you differentiate yourself in today's competitive job market, broaden your employment opportunities by displaying your advanced skills, and result in higher earning potential. Certification can also lead to increased job satisfaction. Research indicates that certified individuals have increased competence, productivity, and credibility with their employers, co-workers, and clients. **(For Juniors and Seniors Only)**

Prerequisite: Successful completion of Microsoft Office 2.

WEB PAGE DESIGN I**5 CREDITS**

Web Page Design I is a course that offers an introduction to Dreamweaver and creation of websites. No mathematics beyond the high school freshman level is required. The course is intended to teach students how to use Adobe Dreamweaver, expose students to proper website design and management techniques; acquaint students with the proper procedures to create websites; develop an exercise-oriented approach that allows learning by doing; introduce students to new input technologies; encourage independent study, and help those who are working alone.

WEB PAGE DESIGN II**5 CREDITS**

The Web Design II course is a very comprehensive, detailed course that continues to teach students how to plan, organize, and create a website from start to finish. The course places a heavy emphasis on individual page design and layout. Using some very powerful techniques taught in this course, students will learn how even the simplest of pages can be arranged to look more appealing and professional. By the end of this Web Page Design course, students will have created a well-designed website. **(For Juniors and Seniors Only)**

Prerequisite: Successful completion of Web Page Design I



VOCATIONAL TECHNOLOGY

All of the Vocational Courses below will fulfill a Practical Arts Elective required for Graduation

AUTOMOTIVE TECHNOLOGY I

5 CREDITS

This course is designed for students who are serious in making a career in the automotive trades and technology fields. This course covers multiple automotive systems including brakes, steering and suspension systems, electrical/electronic, and engine performance. Systems maintenance and repair service will be studied and practiced by all students. Good reading skills and comprehension of technical terms are a must to succeed in this career choice. A prerequisite knowledge of both Standard (fractional) and Metric system forms of measurement will greatly assist the student in his/her work in this course.

As an ASE/NATEF-certified program, this course prepares students for the certification tests, which are the industry standard recognized worldwide in the automotive service industry. This course is a combination of hands-on experience and the use of textbook and technology-specific materials infused with computer-aided and visual diagnostics.

Students will be required to go through an interview process for admission into the Automotive Technology I Program. There are three main criteria for acceptance into the Program:

1) Discipline and Teacher Recommendations—A student's discipline record (if any), classroom effort, attitude, and demeanor in his/her classes will be considered for acceptance into the Program. 2) Attendance. 3) Student interest/prior experience or knowledge. Proper work attire will be required. **(For Juniors and Seniors Only)**



AUTOMOTIVE TECHNOLOGY II

5 CREDITS

This course builds upon the hands-on skills and knowledge required to become successful in the automotive trades and technology fields learned in Automotive Technology I. In this course, practical or “live” work is continued by the student on student-owned vehicles, donated vehicles, and classroom learning stations. Automotive systems including brakes, steering and suspension, electrical/electronic, and engine/engine performance are covered in detail. Good reading skills and comprehension of technical terms are a must to succeed in this career choice. A prerequisite knowledge of both Standard (fractional) and Metric system forms of measurement will greatly assist the student in his/her work in this course.

AUTOMOTIVE TECHNOLOGY III

5 CREDITS

This course builds upon the hands-on skills and knowledge required to become successful in the automotive trades and technology fields learned in Automotive Technology II. In this course, practical or “live” work is continued by the student on student-owned vehicles, donated vehicles, and classroom learning stations. Automotive systems including brakes, steering and suspension, electrical/electronic, and engine/engine performance are covered in detail. Good reading skills and comprehension of technical terms are a must to succeed in this career choice. A prerequisite knowledge of both Standard (fractional) and Metric system forms of measurement will greatly assist the student in his/her work in this course.

Upon completion of Automotive Technology III, the student should be able to successfully take and pass related ASE/NATEF certification tests, which are the industry standard recognized worldwide in the automotive service industry. This course is a combination of hands-on experience and the use of textbook and technology-specific materials infused with computer-aided and visual diagnostics. This program prepares the student for continued education at a college or technical school offering Automotive Technology programs.

Students will be required to go through an interview process for admission into the Automotive Technology II/III Program. There are three main criteria for acceptance into the Program: 1) Discipline and Teacher Recommendations—A student's discipline record (if any), classroom effort, attitude, and demeanor in his/her classes will be considered for acceptance into the Program. 2) Attendance. 3) Student interest/prior experience or knowledge. Proper work attire will be required. **Students may be eligible to earn Dual Credit through Camden County College, ATC, or UTI. (For Juniors and Seniors Only)**

CHILD DEVELOPMENT

5 CREDITS

This course is designed to acquaint students with the development of the child, from conception through birth and into the fifth year of life, as he/she prepares to enter kindergarten. Studying intellectual, social, emotional, and physical growth is part of this course. In this class, a variety of careers in child care is explored through study. **(For Juniors and Seniors Only)**

Successful completion of this course will entitle students to receive credit at Cumberland County College through the Tech. Prep. Program.

CHILD CARE CAREERS

10 CREDITS

This course is designed to acquaint students with the development of the child, from conception through birth and into the fifth year of life, as he/she prepares to enter kindergarten. Intellectual, social, emotional, and physical growth are part of this course. Understanding characteristics of children at different ages and how students can change their teaching skills to fit the developmental needs and interest of children at different ages will be covered in this course. The student will visit a child care facility twice a week and put into practice those theories learned in class. In this course, a variety of careers in child care are explored through study and hands-on experience. This is a full-year course that meets for one block each day. **(For Juniors and Seniors Only)**

Successful completion of this course will entitle students to receive credit at Cumberland County College through the Tech. Prep. Program.

Prerequisite: Successful completion of Child Development



COMPUTER AIDED DRAFTING & DESIGN (CADD) I

5 CREDITS

Computer Aided Drafting and Design (CADD) I is designed to give students a background in drawing as it relates to specialized technical areas. This course proves valuable to students who plan to specialize in drafting, as well as in various fine arts, industrial arts, academics, and technological programs. CADD I gives the student his/her first experience in using basic drafting instruments. The concept of scale drawing is developed and geometric constructions, orthographic projection, and pictorial drawing are also taught to the students. The program establishes the groundwork for more advanced drawing and will serve as a useful first step to a career in computer design, technical illustration, commercial art, or engineering. Computer aided drawing is also explored in this course.

Students will learn basic functions of the following software:

- A+CAD (CADD Fundamentals)
- ArchiCAD by Graphisoft (BIM/Building Information Modeling-Architecture) is the most complete and flexible design solution in the BIM category and is used by 60% of the top architectural schools in the United States.
- Blender. Students will see a brief overview and demonstration of Blender and the Blender Creation Studio software which develop functioning video games, architectural rendering, and animated films.
- Google SketchUp with Photo Real Rendering (Design Conceptualization) is used by more than half of the top 150 largest AEC firms in the world and it is the leading sketching and visualization software.
- Solidworks (Mechanical Engineering) is the standard for mechanical parametric modeling and is used by more than 85% of the world's top-ranked engineering institutions worldwide.

Successful completion of this course will entitle students to receive credit at Cumberland County College through the Tech. Prep. Program. Second semester sophomores, juniors, and seniors may be eligible to earn dual credit at Cumberland County College upon the successful completion of this course.

COMPUTER AIDED DRAFTING & DESIGN (CADD) II

5 CREDITS

CADD II orients the student to machine shop drawing and technical illustration. This course is also very useful for students interested in the career areas of machinists, craftsman, designer, commercial artist, technical illustrator, and engineer. Domestic architectural drawing will also be studied. A specific aim is to help the student develop a responsible work attitude and to create a simulated work environment. Students will also complete a number of minor CADD projects.

Students will review basic functions and cover more detailed capabilities of the following software:

- ArchiCAD by Graphisoft (BIM/Building Information Modeling-Architecture) is the most complete and flexible design solution in the BIM category and is used by 60% of the top architectural schools in the United States.
- Google SketchUp with Photo Real Rendering (Design Conceptualization) is used by more than half of the top 150 largest AEC firms in the world and it is the leading sketching and visualization software.
- Solidworks (Mechanical Engineering) is the standard for mechanical parametric modeling and is used by more than 85% of the world's top-ranked engineering institutions worldwide.

Successful completion of this course will entitle students to receive credit at Cumberland County College through the Tech. Prep. Program. Students may be eligible to earn dual credit at Cumberland County College upon the successful completion of this course.

Prerequisite: Successful completion of Computer Aided Drafting & Design (CADD) I

COMPUTER AIDED DRAFTING & DESIGN (CADD) III

5 CREDITS

CADD III presents concepts and helps develop skills that are important to the prospective draftsman and engineering student. Students learn the application of cam, gears, belts, pulleys, and levers as elements of machine design. Domestic architectural drawing and structural design are also explored. An understanding of algebra, geometry, and science are recommended for this course. Students will also develop at least one major design project using CADD.

Students will review basic functions and cover more detailed capabilities of the following software:

- **ArchiCAD by Graphisoft** (BIM/Building Information Modeling-Architecture) is the most complete and flexible design solution in the BIM category and is used by 60% of the top architectural schools in the United States.
- **Blender**. The line between film, games, and design visualization is quickly blurring. It is becoming increasingly difficult to distinguish between an interactive architectural walk-through and an interactive video game. Students will create a functioning video game, architectural rendering, and an animated film using Blender and the Blender Creation Studio.
- **Google SketchUp with Photo Real Rendering** (Design Conceptualization) is used by more than half of the top 150 largest AEC firms in the world and it is the leading sketching and visualization software.
- **Power Civil by Bentley** (Civil Engineering) automates site design from field to finish, with relationship modeling for real-time scenario exploration. Bentley software is used by 48 of the 50 State Departments of Transportation and is used to create airports, rail terminals, subdivisions, urban complexes, parks, campuses, golf courses, dams, drainage, utility, floodplain projects, and commercial building, plant, and manufacturing sites throughout the world.
- **Solidworks** (Mechanical Engineering) is the standard for mechanical parametric modeling and is used by more than 85% of the world's top-ranked engineering institutions worldwide. **(For Juniors and Seniors Only)**

Successful completion of this course will entitle students to receive credit at Cumberland County College through the Tech. Prep. Program. Students may be eligible to earn dual credit at Cumberland County College upon the successful completion of this course.

Prerequisite: Successful completion of Computer Aided Drafting & Design (CADD) II



CONSTRUCTION TECHNOLOGY I

5 CREDITS

Build a deck, frame a wall, or construct a fireplace. Learn these and other skills in Construction Technology I. This is a semester-long course offered to students in the 10th, 11th, and 12th grades. Each year students will build appropriate projects in the district and community, gaining actual on-the-job experience and training. This course includes basic work in carpentry, masonry, painting, tile work, drywall, and many other phases of the construction field. Good attitudes and work habits needed to get a job done will also be learned by students. Proper work attire will be required.

CONSTRUCTION TECHNOLOGY II

5 CREDITS

This second-level course is offered to students who have successfully completed Construction Technology I. This class reinforces knowledge and skills introduced in Construction Technology I, while introducing more advanced concepts and on-the-job training. Students will continue to build appropriate projects in the district and community, while gaining actual on-the-job experience. This course includes advanced work in carpentry, masonry, painting, tile work, drywall, and many other phases of the construction field. Good attitudes and work habits needed to get a job done will also be learned by students. Proper work attire will be required. **(For Juniors and Seniors Only)**

Prerequisite: Successful completion of Construction Technology I

CONSTRUCTION TECHNOLOGY III

5 CREDITS

This third-level course is offered to students who have successfully completed Construction Technology II. This class reinforces knowledge and skills introduced in Construction Technology II, while introducing more advanced concepts and on-the-job training. Students will continue to build appropriate projects in the district and community, while gaining actual on-the-job experience. This course includes advanced work in carpentry, masonry, painting, tile work, drywall, and many other phases of the construction field. Good attitudes and work habits needed to get a job done will also be learned by students. Proper work attire will be required. **(For Juniors and Seniors Only)**

Prerequisite: Successful completion of Construction Technology II

CULINARY ARTS I

5 CREDITS

This course is designed for students who are interested in developing basic cooking skills. Nutrition, vocabulary, cooking techniques, and special interests of the students are covered in this course. **(For Juniors and Seniors Only)**

CULINARY ARTS II

5 CREDITS

This course is designed for students who wish to further their cooking skills in Culinary Arts I. Foreign foods, appliance demonstrations, and special diets are some of the areas covered in this course. Special interests of the students and projects are also included in this course. **(For Juniors and Seniors Only)**

Prerequisite: Successful completion of Culinary I

CULINARY ARTS III

5 CREDITS

This course is designed for students who complete Culinary II and pass the Serve-Safe exam. Students with the knowledge, skills and abilities will participate in structured learning experiences in preparation for a career in the food industry. Successful completion of Culinary II

ENGINEERING TECHNOLOGY I

5 CREDITS

The major focus of this course is the engineering design process and its application. Through hands-on projects, students apply engineering standards and document their work. Topics include mechanisms, energy sources, energy applications, statics, material properties, and material testing. Students will have the opportunity to develop skills and understanding of course concepts through activity, project and problem-based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills based upon engineering concepts. It also allows students to develop strategies to enable and direct their own learning. Prerequisite: Completion of Algebra I with a final grade of "B" or better.

ENGINEERING TECHNOLOGY II

5 CREDITS

This course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include machine control, fluid power, statistics and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions.

Prerequisite: Completion of Geometry with a final grade of "B" or better and successful completion of Engineering Technology I.

ENGINEERING TECHNOLOGY III

5 CREDITS

Designed for 12th grade student or advanced 11th grade student. This course introduces the engineering student to a variety of programs and concepts in various fields of engineering. The course will deal with basic computation technique, problem solving and experimentation. Students will participate in small groups to carry out a series of basic engineering experiments. In addition to the experiments each group will be assigned a specific design and/or reverse engineering project.

Prerequisite: Completion of Algebra II with a final grade of "B" or better and currently enrolled in Algebra III or higher.

Students may be eligible to earn dual credit at Cumberland County College upon the successful completion of this course.

ELEMENTS OF HEALTHCARE CAREERS

5 CREDITS

Elements of Healthcare Careers will introduce a broad variety of healthcare professions. This program will expose students of all levels to the following health occupation clusters: administrative, diagnostic, environmental service, information service/technical, and therapeutic. This course will allow students to develop skills and information literacy through critical-thinking activities, teamwork, collaboration, and a hands-on approach to learning. Classroom time is divided between clinical classroom laboratory practice and academic study. Career exploration will be pursued through field trips, guest speakers, and career assessments. **This course is a dual-credit course with Cumberland County College for 2nd semester sophomores, juniors, and seniors. (Cumberland County College charges a fee for college credits.)**



PRINCIPLES OF NUTRITION

5 CREDITS

Knowledge of nutrition principles and the ability to apply that knowledge are required in all aspects of healthcare. This course will outline the relationship of diet, lifestyle, weight management, and the prevention of disease. An overview of the digestion, absorption, and metabolism of proteins, carbohydrates, fats, vitamins, minerals, and water will be provided. Nutritional principles, such as dietary fads, cultural patterns, and other consumer concerns will be addressed. Principles of Nutrition will allow students to develop skills and information literacy through critical-thinking activities, teamwork, collaboration, and a research-based approach to learning. **(For Juniors and Seniors Only)**

Students may be eligible to earn dual credit at Cumberland County College upon the successful completion of this course.

Prerequisite: Successful completion of Elements of Healthcare Careers

HEALTHCARE CAREERS/CNA PROGRAM

15 CREDITS

Healthcare Careers is a course that is recommended for those students who are considering a career in healthcare upon graduation. This program course follows the guidelines and the curriculum of the State of New Jersey Department of Health and Senior Services for the long-term Nursing Assistant. Upon completion of the program, students will be eligible to take part in the state certification process, leading to the State of New Jersey Certificate for Nurse Aide (CNA). Students enrolled in this program will experience actual work experience with patients at local healthcare facilities. A total of forty hours of clinical experience and training will be provided outside the classroom within our community. This program is also recommended for all students thinking of entering nursing programs and other patient-oriented health careers. The experience of working with patients and providing care and treatment is valuable to anyone entering any healthcare related career. **(For Juniors and Seniors Only)**

Prerequisite: Successful completion of Principles of Nutrition

LEGAL AND ETHICAL ISSUES IN HEALTHCARE**5 CREDITS**

This course will provide an overview of the legal and ethical principles needed for healthcare workers to give competent and compassionate care to clients. Legal and Ethical Issues in Healthcare will allow students to develop skills and information literacy through critical-thinking activities, teamwork, collaboration, and a hands-on approach to learning. The goal for this course will be to provide students with the legal and ethical tools to utilize in building understanding and working toward the resolution of problems that is within acceptable legal and ethical boundaries. **(For Juniors and Seniors Only)**

Students may be eligible to earn dual credit at Cumberland County College upon the successful completion of this course.

LAW ENFORCEMENT**5 CREDITS**

Law Enforcement provides practical information and problem-solving opportunities that instill the knowledge and skills necessary for survival in our law-saturated society. The curriculum includes: case studies, mock trials, role-plays, small group exercises, and visual analysis activities. Students are encouraged to become active participants in their own education and career planning. The course promotes a willingness and capability to participate effectively in the legal and political systems in New Jersey and the United States. Good citizenship, law-abiding behavior, and workplace readiness skills are emphasized.

JUSTICE STUDIES**5 CREDITS**

In Justice Studies, students will study all aspects of crime and examine the ways society reacts to crime. Students will build on their general understandings from Law Enforcement to further understand how the justice system functions and how it is structured to react to crime. Students will examine the historical, political, economic, and cultural patterns that influence how crime is defined and evaluate how these forces impact the policy decisions made by society and its institutions. Students will also study the individual and social conditions that may lead to criminal behavior and analyze the organization and operation of crime control systems. Additionally, students will analyze the relationship between the agencies of the justice system and other segments of society, with particular emphasis on exploring the inherent difficulty that exists in trying to balance the rights of individuals with the needs of society. Students will explore the various careers available in Justice Studies and will learn what steps they need to take to successfully pursue these careers. Students will develop an understanding of the day-to-day responsibilities and activities of the many individuals who work within the justice system. There are six major parts of the course, each focusing on an essential element of the justice system and the concepts necessary to understand each essential element. The course essentials are: Introduction to Criminal Justice, Crime and the Law, the Police, the Courts, Corrections, and Juvenile Justice. **(For Juniors and Seniors Only)**

Students may be eligible to earn dual credit at Cumberland County College upon the successful completion of this course.

Prerequisite: Successful completion of Law Enforcement.

SEWING I**5 CREDITS**

Sewing I is an introduction to the art and skill of home sewing. Various techniques are studied and applied to small projects and then to simple clothes. Patterns and fabrics are also studied and interpreted by the students. **(For Juniors and Seniors Only)**

SEWING II & III**5 CREDITS**

Sewing II and III are designed for the student who has already had at least one semester of sewing. Advanced techniques, patterns, and needlecraft will be explained and used throughout the program. Useful time-saving tips and techniques are also incorporated into the instructional block. **(For Juniors and Seniors Only)**

Prerequisite: Successful completion of Sewing I/II

WOODWORKING TECHNOLOGY I**5 CREDITS**

This course is designed for students who would like to experience the joys and craftsmanship of cabinet-making. This course will teach the required skills to properly use the many tools and equipment in the wood shop environment. Safety and proficiency of tools are followed by hands-on use of tools and equipment. Independent student projects are assigned after the student successfully completes mandatory developmental projects and safety tests. These projects demonstrate proficiency of both hand and power tools, as well as design/plan reading. Good reading skills and comprehension of drawings and plans are a must to succeed in this career choice. A prerequisite knowledge of Standard (fractional) and linear measurement will greatly assist the student in his/her work. Woodworking Technology I is a combination of hands-on experience, textbook and technology materials, and computer-aided and visual presentations. Proper work attire will be required. **(For Juniors and Seniors Only)**

WOODWORKING TECHNOLOGY II**5 CREDITS**

This class reinforces knowledge and skills learned in Woodworking Technology I, while introducing more advanced concepts and on-the-job training. Woodworking Technology II includes advanced work in cabinet-making, as students gain hands-on industry experience. This program reinforces the proper use of the tools and equipment in the wood shop environment, as well as safety within the classroom. Students will complete independent projects that demonstrate proficiency of both hand and power tools, as well as design/plan reading. In addition, students work on the building of custom-made cabinets for the school-built house and cabinetry projects needed throughout the district. Good reading skills and comprehension of drawings and plans are a must to succeed in this career choice. A prerequisite knowledge of Standard (fractional) and linear measurement will greatly assist the student in his/her work in this course. Woodworking Technology II is a combination of hands-on experience, textbook and technology materials, and computer-aided and visual presentations. Proper work attire will be required.

WOODWORKING TECHNOLOGY III**5 CREDITS**

This class reinforces knowledge and skills learned in Woodworking Technology II, while introducing more advanced concepts and on-the-job training. Woodworking Technology III includes advanced work in cabinet-making, as students gain hands-on industry experience. This cabinet making course is the third tier within the Woodworking Technology program of study and is designed for students who wish to pursue carpentry as a career choice. The three major trades in woodworking technology, which include carpentry, cabinet making, and wood pattern, are emphasized. Their related occupations can be divided into four classes: Unskilled, semi-skilled, skilled and professional. This course emphasizes the basic skills and knowledge needed in the trade and in the use of hand tools, the operation of all common woodworking machines and an understanding of these machines and their accessories. The basic philosophy behind this course is to satisfy the needs of certain students for training that will be immediately valuable for greater earning power and employment possibilities. In addition, decision making and problem solving skills will be used in the independent projects. The course provides an opportunity for the mechanically minded student to expand upon their existing woodworking technology knowledge, as well as to develop a sense of self-confidence in meeting life's challenges.

(For Juniors and Seniors Only)



ENGLISH

COLLEGE PREP ENGLISH I

5 CREDITS

This course is for freshmen who wish to attend two-year colleges, four year colleges or technical schools to pursue careers in technology and/or business areas, and surveys several popular and thought-provoking themes for increasing reading skills. Vocabulary and textbook materials develop reading and writing skills which will promote success on the PARCC, career, and life choices. Units and materials are arranged so that the student can understand, as well as enjoy, what he/she reads. Attention is also given to literary elements, various literary genres, public speaking, cooperative learning and writing assignments which are geared to both the PARCC and career choices. Written composition, internet research, and discovering library resources are other activities which are also utilized. Developing academic rigor, student-centered initiatives, high level thinking skills, and intellectual curiosity is stressed.

Graduation Requirement Fulfilled: English

COLLEGE PREP ENGLISH II

5 CREDITS

This course is for sophomores who wish to attend two-year or four year colleges or technical schools to pursue careers in technology and/or business areas, and surveys several popular and thought-provoking themes for increasing reading skills. Vocabulary and textbook materials develop reading and writing skills which will promote success on the PARCC, career, and life choices. Units and materials are arranged so that the student can understand, as well as enjoy, what he/she reads. Attention is also given to literary elements, various literary genres, public speaking, cooperative learning and writing assignments which are geared to both the PARCC and career choices. Written composition, internet research, and discovering library resources are other activities which are also utilized. Developing academic rigor, student-centered initiatives, high level thinking skills, and intellectual curiosity is stressed.

Graduation Requirement Fulfilled: English

COLLEGE PREP ENGLISH III

5 CREDITS

This course is for juniors who wish to attend two or four year colleges or technical schools to pursue careers in the technology and/or business areas, and surveys several popular and thought-provoking themes in American Literature for increasing reading skills. Vocabulary and textbook materials continue to develop reading and writing skills which will promote success on the HSPA, career, and life choices. This course integrates American literature with grammar, writing, history, and the arts. Compositions, written and oral presentations, and group projects are required in this course. Students are required to keep notebooks, read selections from the literature text, and participate in class activities. Supplementary reading is also assigned by the instructor. Written composition, internet research, and discovering library resources are other activities which are also utilized. Developing academic rigor, student-centered initiatives, high level thinking skills, and intellectual curiosity is stressed.

Graduation Requirement Fulfilled: English

COLLEGE PREP ENGLISH IV

5 CREDITS

This course is for seniors who wish to attend two-year colleges, four year colleges or technical schools to pursue careers in the technology and/or business areas, and surveys several popular and thought-provoking themes in English and World Literature for increasing reading skills. Vocabulary and textbook materials continue to develop reading and writing skills which will promote success in college, career, and life choices. This course integrates English literature with grammar, writing, history, and the arts. Compositions, written and oral presentations, and group projects are required in this course. Students in this course are required to keep notebooks, read selections from the literature text, and participate in class activities. Vocabulary study, spelling skills, and reading comprehension skills are also emphasized. The writing of clear, concise sentences and well-organized paragraphs is a primary objective of this course along with supplementary reading which is assigned by the instructor. Developing academic rigor, student-centered initiatives, high level thinking skills, and intellectual curiosity are stressed.

Graduation Requirement Fulfilled: English



ADVANCED ENGLISH COURSES

Advanced English courses are weighted and accelerated level classes with rigorous standards which demand a serious academic approach to learning and a dedicated work ethic from their students. **Students are required to participate in summer reading programs prior to entering the class. It is the student's responsibility to secure these materials and complete the accompanying assignments. English teacher recommendations are necessary for admittance into this course.**

ADVANCED ENGLISH I

5 CREDITS

Half-weighted Course: This course is recommended for freshman who wish to attend four year colleges. This course provides accelerated work in all areas of the English curriculum, particularly in composition, vocabulary, and grammar. In addition, several other literary works and the course text are required readings, along with intensive reading comprehension, vocabulary skills, essay revision, and written composition work. The course is designed to challenge students who are particularly interested in reading, writing skills, and literature. Developing academic rigor, student-centered initiatives, and intellectual curiosity is stressed. **Summer assignments are required for this course and will be distributed preceding the school year.**

Prerequisites: A grade of "B" or better from the previously taken advanced level English course is strongly recommended.

Previous English teacher recommendation.

Graduation Requirement Fulfilled: English

ADVANCED ENGLISH II

5 CREDITS

Half-weighted Course: This course is recommended for sophomores who wish to attend four year colleges. This course provides accelerated work in all areas of the English curriculum, particularly in composition, vocabulary, and grammar. In addition, several other literary works and the course text are required readings, along with intensive reading comprehension, vocabulary skills, essay revision, and written composition work. The course is designed to challenge students who are particularly interested in reading, writing skills, and literature. Developing academic rigor, student-centered initiatives, and intellectual curiosity is stressed. **Summer assignments are required for this course and will be distributed preceding the school year.**

Prerequisites: A grade of "B" or better from the previously taken advanced or college preparatory level English course is strongly recommended.

Previous English teacher recommendation.

Graduation Requirement Fulfilled: English

ADVANCED ENGLISH III

5 CREDITS

Half-weighted Course: This course is recommended for juniors who wish to attend four year colleges. This course offers students readings from a full range of American literature, with a stress on its forms and practitioners. In addition, a minimum of five more novels and the course text are required reading, along with intensive reading comprehension, vocabulary skills, and written composition work. Oral presentations, independent readings, participation in class activities, and revision of compositions are also required. This course is designed to challenge students who are particularly interested in reading comprehension, writing skills, and a variety of American literature. Developing academic rigor, student-centered initiatives, and intellectual curiosity is stressed. **Summer assignments are required for this course and will be distributed preceding the school year.**

Requirement: Previous English teacher recommendation.

Prerequisites: A grade of "B" or better from the previously taken advanced or college preparatory level English course is strongly recommended.

Graduation Requirement Fulfilled: English



ADVANCED PLACEMENT ENGLISH IV

5 CREDITS

Full-weighted Course: This course is recommended for seniors who wish to attend four year colleges. This course offers readings from a survey of world literature, both classical and contemporary. The summer reading program includes readings and a written assignment followed by several literary units throughout the semester. Frequent written compositions, rhetoric, and literary analysis assignments geared to college level work is completed throughout the course. This accelerated course is the Advanced Placement College Course in English and is available for dual credit. This course is designed for students who are particularly interested in reading comprehension, written composition, and literature preparation for college-level English courses. Developing academic rigor, student-centered initiatives, high level thinking skills, and intellectual curiosity is stressed. **Summer assignments are required for this course and will be distributed preceding the school year.**

Requirement: Previous English teacher recommendation.

Prerequisites: A grade of "B" or better from the previously taken advanced or college preparatory level English course is strongly recommended.

Graduation Requirement Fulfilled: English

Students may be eligible to earn dual credit at Cumberland County College upon the successful completion of this course.

CREATIVE WRITING I**5 CREDITS**

This semester length course is designed for students who are interested in developing their writing skills and who enjoy writing short stories, poetry, song lyrics, and plays. Emphasis will be placed on creating a variety of verisimilitude. The writing trade and techniques for publishing will also be discussed. Students will be encouraged to write for publication outside the classroom. All students will experiment with varied writing styles, but may concentrate on their interests. A workshop atmosphere encourages students to work cooperatively or individually. Students write daily.

Graduation Requirement Fulfilled: Elective

Prerequisite: None

For Juniors and Seniors Only

MINORITY LITERATURE**5 CREDITS**

This semester-length course is designed for students who are interested in reading and discussing literature from traditionally minority authors. Literature will include male and female authors from Africa, the Mid-East, Russia, China, Mexico, Spain, and others. Students will be required to read, discuss, and write about the literature, which will include short stories, poetry, and longer pieces of fiction and non-fiction.

Prerequisite: A grade of "C" or better from the previously taken English course is strongly recommended

Graduation requirement Fulfilled: Elective

For Juniors and Seniors Only

SHAKESPEARE**5 CREDITS**

This course is offered for juniors and seniors only. It is designed as an English elective for college preparatory students who are interested in Shakespeare's life and his writings. Students will be required to read and discuss selected plays which represent Shakespeare's historical, comic, and tragic drama. Elizabethan English history, English Theater history, and sonnets are part of the curriculum as are research, presentation, and literary analysis.

Prerequisites: A grade of "C" or better from the previously taken advanced or college preparatory level English course is strongly recommended.

Graduation Requirement Fulfilled: Elective

For Juniors and Seniors Only



FINE AND PERFORMING ARTS

****ANY COURSE LISTED IN THIS SECTION WILL FULFILL THE FINE AND PERFORMING ARTS GRADUATION REQUIREMENT****

To receive a passing grade for any of the following courses, a student must: keep regular attendance; adhere to school and classroom rules; and complete all assigned projects, papers, and tests; have a cooperative and positive attitude in class; properly use and care for materials and equipment; carefully follow all instructions; and exercise a creative imagination. In addition, written examinations are given each marking period.

ELEMENTS OF ART

5 CREDITS

This course emphasizes and consists of studying the elements of art as found in a variety of forms including: drawing, painting, illustration, design, 3-D construction and similar hands-on projects. Elements of Art is also a study of art history and cultures. All students will acquire knowledge and skills that refine their perceptual, intellectual, physical and technical skills while increasing their aesthetic awareness. They will also acquire knowledge of the critiquing process. Those students with an interest in the arts, that have a background in fine art and are willing to do the work to become better artists, are encouraged to enroll in this course. Grading is based upon work skills, willingness to work, attendance, class participation, textbook work, written critiques, marking period quizzes, final exam, meeting objectives of the lessons and completion of all art projects. Students are expected to demonstrate self management.

INTERMEDIATE ART

5 CREDITS

The Intermediate Art students are expected to demonstrate artistic ability and progress in their work based on concepts and skills learned in Elements of Art, with an introduction this year to the Principles of Art. The areas of drawing and painting along with other two-dimensional techniques will be emphasized more so than the craft and three-dimensional projects of Elements of Art in order to prepare those students planning to progress to Advanced Art and Studio Art 2D. Grading is based upon: work skills, willingness to work, attendance, class participation, textbook work, written critiques, marking period quizzes, final exam, meeting objectives of the lessons, and completion of all art projects.

Prerequisites: A recommended grade of "C" or better in Elements of Art.

ADVANCED ART

5 CREDITS

This is a specialized course with projects in the areas of design, advanced drawing, painting in tempera, watercolor and acrylic with some possible three-dimensional work. Portfolio development, career exploration, art appreciation and critique, mat cutting and exhibition skills are presented for the benefit of those students who are interested in pursuing an art career. Students will be expected to exercise their creative imagination in completing more complex and challenging projects which require the use of skills learned in Elements of Art and Intermediate Art. Grading is based upon classroom performance, attendance, demonstrated skills, final exam and artistic development.

Prerequisites: Successful completion of Intermediate Art with a grade of B or better and/or a recommendation from the previous instructor.

STUDIO ART: 2D

5 CREDITS

This is an advanced level art course designed for students interested in developing a career in the arts. Emphasis is based on the student's individual skills and understanding of concepts, materials, and techniques. In addition to class assignments, students work on portfolios for art school applications and participate in various art exhibits. Final examinations are given in this course, and students are required to keep a sketchbook. All assignments must be completed. Grading is based upon classroom performance, demonstrated skills, and artistic development.

Prerequisites: Successful completion of Advanced Art with a grade of "B" or better.

ADVANCED PLACEMENT STUDIO ART: 2D

5 CREDITS

Full Weighted Course: This is an advanced level art course designed for students interested in developing a career in the arts. Emphasis is based on the student's individual skills and understanding of concepts, materials, and techniques. In addition to class assignments, students work on portfolios for art school applications and participate in various art exhibits. Final examinations are given in this course, and students are required to keep a sketchbook. All assignments must be completed. Grading is based upon classroom performance, demonstrated skills, and artistic development.

Prerequisites: Successful completion of Advanced Art with a grade of "B" or better..

Note: Summer assignments are a part of this course and will be distributed prior to the end of the school year.

CERAMICS**5 CREDITS**

Students will explore and expand on the basic techniques of pinch, coil, and slab hand-building. The potter's wheel will be introduced, and used as a tool for combining both thrown and hand-built pieces. Students will also experiment using different textures, slips, underglazes, and glazes on their pieces. **(This class is offered to Juniors and Seniors only.)**

Prerequisites: Successful completion of Elements of Art with a "C" or better.

THEATER PRACTICUM I**5 CREDITS**

This semester course is designed to introduce the student to acting and stagecraft. Students will learn to develop expressive and dramatic vocal techniques, the basics of stage movements and body language, developing a dramatic presentation through character analysis and character interaction, listening and following directions, critiquing oneself and others to enhance performance, and establishing-maintaining a positive rapport with one's audience. Students will utilize monologues, dialogues, one-act plays, selections from major works, and self-created materials. Students will be expected to participate in school productions.

Graduation Requirement Fulfilled: Fine and Performing Arts

(For Juniors and Seniors Only)

THEATER PRACTICUM II**5 CREDITS**

This course will feature a more in-depth practice and analysis of acting, play interpretation, directing, technical theater and performance. This course is broken up into four major sections: Performance, Technical Theater, Play Analysis and Production. Finally students will be asked to participate in the school production and produce a class showcase production for performance.

Prerequisites are Theater I, audition or teacher recommendation.

COURSE REQUIREMENTS FOR BAND MEMBERS

The following criteria for students enrolled in Band are as follows: (1) daily attendance; (2) attitude and participation in class; (3) performances and rehearsals; (4) attendance at all band functions; (5) periodic grading on assignment music; (6) periodic homework; (7) written final exam; and (8) responsibility for all assigned uniforms, music, and equipment.

CONCERT BAND (9-12)

5 CREDITS

This band is a preparatory course for Wind Ensemble. This course will include all students not selected for Wind Ensemble. This course meets on a semester basis during the school year. Students must demonstrate a certain proficiency level on a wind or percussion instrument and are seated in the organization based on proficiency and director recommendation. Once assigned a position, the student has the prerogative to challenge for a higher seat. Standard band literature is performed several times during the year. Students may have the opportunity to take part in school assembly concerts, field trips, critiqued festivals, adjudicated performance, workshops and other activities which will refine their perceptual, intellectual, physical and technical skills in music. An overview of music theory fundamentals is studied as well.

WIND ENSEMBLE (10-12)

5 CREDITS

This band will be comprised of sophomores, juniors, and seniors who have successfully completed at least one year in Concert Band. The band will be limited to correct instrumentation. Students not selected for Wind Ensemble, in those cases, will be placed in Concert Band. This course meets every other day throughout the school year. Students must demonstrate a certain proficiency level on a wind or percussion instrument and are seated in the organization based on proficiency and/or audition scores. Once assigned to a position, the student has the prerogative to challenge for a higher seat. Advanced standard band literature is performed several times during the year. This band will take part in competitive functions as well as the "Messiah" performance. **AN AUDITION IS REQUIRED FOR ADMISSION INTO THIS COURSE.**

PERCUSSION ENSEMBLE (10-12)

5 CREDITS

This course will meet on a semester basis and will teach all percussionists melodic percussion instruments, perform percussion ensemble literature, increase rhythmic dictation and increase the skill level throughout the department on percussion. Attendance in class, graded assignments and one evening concert is mandatory for all students. Prerequisites: 1 year experience in high school band or teacher recommendation.

JAZZ ENSEMBLE (9-12)

5 CREDITS

This course meets every other day throughout the school year. Students must be proficient on a wind, string (guitar or bass), or percussion instrument. The ensemble will rehearse Jazz literature, with emphasis on rhythmic styles and development on improvisation techniques. An in-depth study of Jazz history, styles, and performers is also a part of this course. **AN AUDITION IS REQUIRED FOR ADMISSION INTO THIS COURSE.**



COURSE REQUIREMENTS FOR CHORAL MEMBERS

The following criteria for students enrolled in the choral program will be a combination of the following: periodic testing of vocal parts; a weekly performance grade based on regular attendance and active participation in class; attendance at rehearsals and concerts; written tests based on class lectures; responsibility of assigned music and choir uniforms; and proper behavior. A final exam will be given in this course. A student's failure to adhere to one or more of the above rules may result in dismissal from the choral program.

CHORUS (9-12)

5 CREDITS

This course meets on a daily basis and is open to any student who is interested in singing all styles of music. Students taking this course are expected to learn, sing, and memorize music with emphasis on correct choral fundamentals. Attendance in class, possible after school rehearsals, and one evening concert is mandatory for all students. Each student is evaluated on the music he/she learned in class and is responsible for completing all assignments as they relate to the class. Each student is expected to actively participate in class by singing, answering questions, and following directions. There may be written tests on music fundamentals, and also vocal testing on music. Each student is assigned sheet music and a music folder which he/she is responsible for the entire school year. Grading will be based on a weekly participation grade and periodic testing of vocal parts.

SELECT CHOIR (9-12)

5 CREDITS

This class meets every other day throughout the year. **STUDENTS ARE SELECTED BY AUDITIONS ONLY!** Select Choir is an integral part of the Fine and Performing Arts Department. Students selected for this specialized choral performing organization perform frequently for various community groups, as well as scheduled concerts throughout the school year. Students will have the opportunity to sing and expand their musical knowledge through the study of a variety of standard choral literature.

COURSE REQUIREMENTS FOR MUSIC

To receive a passing grade for any of the following courses, a student must: keep regular attendance; adhere to school rules and rules of the music room; complete all assigned projects, papers, and tests; have a cooperative and positive attitude in class; properly use and care for materials, instruments and equipment; and carefully follow all instructions; In addition, written examinations are given throughout the course.

MUSIC APPRECIATION (9-12)

5 CREDITS

This course is a basic music skills and appreciation course that will cover the fundamentals of music and discuss how music has evolved into the many different genres that it includes today. Topics to be covered are; how to read music, the history of music, learning how to play various instruments, analyzing different composers/song writers, dance, current events, basic piano and discussing music technology. Various different texts will be used as well as internet software and musical scores. **NO MUSICAL BACKGROUND IS REQUIRED.**

MUSIC THEORY 1

5 CREDITS

Half-Weighted Course: This course is available to those students who are interested in studying music as it relates to the following criteria: ear training, sight-reading, sight-singing, identity of the staff, notes, and different elements of music with a strong emphasis on piano; analysis of music, identity of chords, choral structure, and why music moves the way it does.

Prerequisites: Introduction to Music, Music Appreciation, or 2 years experience in choir, band or teacher recommendation.

ADVANCED PLACEMENT MUSIC THEORY

5 CREDITS

Full Weighted Course: This course is available to those students who are interested in studying music as it relates to the following topics: advanced analysis of music, four part writing, musical dictation, modes, Sibelius and Reason software, advanced piano, chord structures; orchestra structure, instrument ranges, transposition, practical applications in reading and writing a full musical score, vocal and instrumental arranging which involves ranges and capabilities of voices and instruments and applying techniques in order to write an original musical composition. **Summer assignments are required for this course and will be distributed proceeding the school year.**

Prerequisites: Successful completion of Music Theory I or passing the Theory I final exam.

WORLD LANGUAGES

ALL students are required to pass one (1) year of a world language. This is a state and district graduation requirement.

FRENCH I

5 CREDITS

The aim of this college preparatory course is to begin teaching the students to read, write, understand, and speak the French language. Fundamental French grammar is taught, as is good pronunciation. Students will study France's history and customs. Students are expected to use the French language every day in all four ways: reading, writing, speaking, and comprehension. Graduation Requirement Fulfilled: World Language.

FRENCH II

5 CREDITS

This college preparatory course continues to expand and refine the language skills taught in French I. Emphasis is placed on listening, speaking, reading, and writing the French language with improved understanding. The student will also increase his/her knowledge of France as a nation, including its geography and culture, and have the opportunity to sample French cooking. Prerequisites: Successful completion of French I with a "C" average or better.

FRENCH III

5 CREDITS

Half Weighted Course: In this college preparatory course, students will continue to expand their vocabulary and review of grammar principles, which they have previously learned. Through specific reading selections, students will become acquainted with various French writers and learn of their influence on French literature. Basic composition skills will be improved through original writing and the students will be given the opportunity for oral presentation on various subjects. Prerequisites: Successful completion of French I and II with a "C" average or better

FRENCH IV

5 CREDITS

Full Weighted Course: This college preparatory course continues the development of reading, writing, and speaking skills. In addition to increasing their vocabulary and perfecting grammar skills, students will do an in-depth study of French literature, including prose, poetry, and plays. A more in-depth study of French history and culture will also be included, with practice given in reading relatively long selections and in giving oral summaries of the reading material. Prerequisites: Successful completion of French III with a grade average of 80 or above and a teacher recommendation.

FRENCH V

5 CREDITS

Full Weighted Course: This college preparatory course prepares students, at a minimum, to take the French Achievement Test. With sufficient student interest, its eventual focus will be to phase in the Advanced Placement Curriculum, leading to the Advanced Placement Examination in French. Students should also be able to commence his/her study of the French language and literature in college at a major level. This course includes an extensive review of complex grammatical concepts, the introduction of the imperfect and pluperfect subjunctives, recognition of all verb tenses, and a continuation of the overview of French history, art, and literature begun in French IV. On-going practice will be given in reading long French literary selections, including poetry, prose, and plays, and in giving oral and written summaries of the reading material. The introduction of textual analysis will present students with an opportunity for developing critical reading and interpretive writing skills involving more fluent and sophisticated use of the French language. Prerequisites: Successful completion of French IV with a grade average of 80 or above and a teacher recommendation.

GERMAN I

5 CREDITS

This college preparatory course aims at teaching the student to read, write, speak, and understand the German language. Pronunciation of the German language is emphasized in this course, as well as the basic grammar. In the process of developing the aforementioned language skills, students will learn much of the culture of the German-speaking societies. Graduation Requirement Fulfilled: World Language

GERMAN II

5 CREDITS

In this college preparatory course, the language skills learned by the students in German I are refined and expanded. Emphasis is placed on students learning to understand, speak, read, and write the German language. Students will also be introduced to widening aspects of the German culture. Greater facility with and working knowledge of the German language are goals of this course. Prerequisites: Successful completion of German I with a "C" average or better.

GERMAN III

5 CREDITS

Half Weighted Course: This college preparatory course continues to emphasize the development of the student's skills in listening, speaking, reading, and writing the German language. The main thrust of this course is to develop reading and writing skills. Creative and independent use of the language in speaking and writing are emphasized through active role-playing and dialogue in special in-class and extra-curricular projects. Prerequisites: Successful completion of German II with a "C" average or better.

GERMAN IV**5 CREDITS**

Full Weighted Course: This college preparatory course is designed to prepare students for world language study on the college level. German IV entails a study of difficult grammatical concepts and an introduction to the various kinds of German literature, such as modern short stories, biographies, poetry, plays, and journalism. Students will be required to write essays, in addition to reading and doing grammar assignments. Opportunities for presentations and free composition on readings may also be provided. With much practice and participation in class activities, the German IV student should be ready to commence with his/her study of the German language on a college level.

Prerequisites: Successful completion of German III with a grade average of 80 or above and a teacher recommendation.

GERMAN V**5 CREDITS**

Full Weighted Course: The first goal in this college preparatory course is to prepare students for the Advanced Placement Examination, which involves practicing the four language skills: listening, speaking, reading, and writing. This is achieved by reading important literary works from various periods of German literature, as well as magazines and newspaper articles in German; by writing compositions and essays, and by giving reports and demonstrations in the German language.

Prerequisites: Successful completion of German IV with a grade average of 80 or above and a teacher recommendation.

Graduation Requirement Fulfilled: Elective

SPANISH I**5 CREDITS**

This college preparatory course brings about a simultaneous development of an active mastery of basic vocabulary; a fundamental ability to understand, speak, read, and write the Spanish language; and an appreciation of the Spanish culture and civilization. Conversational grammar is presented in this course to facilitate earlier skills in self-manipulation of the new language. Pronunciation drills are integrated with language learning for developing a natural and good accent. Audio-lingual success is brought about by the frequent practice of patterns and dialogue. The reading of Spanish history, literature, and customs; the music from Spain and Latin American countries played in class; and the activities planned by the International Club will develop a greater feeling for learning the language well as a better understanding of the Spanish way of life.

Graduation Requirement Fulfilled: World Language

SPANISH II**5 CREDITS**

This college preparatory course endeavors to reinforce the basic fundamentals of the language learned in Spanish I. The cultural advantages of the study of Spain and Latin American countries are also stressed at this level.

Prerequisites: Successful completion of Spanish I with a "C" average or better.

SPANISH III**5 CREDITS**

Half Weighted Course: This college preparatory course endeavors to strengthen past knowledge as well as to further the student's ability to read and write the Spanish language. At this level, the teacher uses almost no English in direction and explanation, which serves to strengthen the student's oral comprehension and speaking skills. Through selected readings, independent investigations, and audiovisual presentations, the student will gain a deeper understanding of the history, geography, and culture of the Latin American countries.

Prerequisites: Successful completion of Spanish II with a "C" average or better.

SPANISH IV**5 CREDITS**

Full Weighted Course: In this college preparatory course, students will build on and expand grammar principles and vocabulary through selected readings, oral presentations, and original writing. This course is conducted in Spanish and the use of English, by the student, is discouraged but not prohibited. Through readings, independent investigations, lectures, and audiovisual presentations, the geography, history, culture, and art of Spain are studied.

Prerequisites: Successful completion of Spanish III with a final grade average of 80 or above and a teacher recommendation.

SPANISH V**5 CREDITS**

Full Weighted Course: The first goal in this college preparatory course is to prepare students for the Advanced Placement Exam which covers advanced grammar. The second goal consists of extending the four aims of this language which include understanding the language, responding when being spoken to, reading the language, and writing the language. This is achieved by reading important literary works from various periods of Spanish literature, magazines, and newspaper articles in Spanish, by writing compositions and essays, and by giving reports and demonstrations in the Spanish language.

Prerequisites: Successful completion of Spanish IV with a final grade of an 80 or above and a teacher recommendation.

LATIN I**5 CREDITS**

This course is an introduction to the Latin language. The students study Latin grammar, Latin vocabulary, Greco-Roman mythology, the lives of famous Romans, and the Roman culture. Since a majority of the words in English come from Latin, the course will help the student develop a better vocabulary and help them improve their performance in other subjects and on standardized tests such as the SAT's.

Graduation Requirement Fulfilled: World Language

LATIN II**5 CREDITS**

In Latin II, students will use culturally authentic selections to continue to build their knowledge of Latin grammar. Readings include poetry, autobiographies, history, and fables, all written five hundred to two thousand years ago. By the end of Latin II, students will be able to read the works of Julius Caesar and understand his significance to Roman history.

Prerequisites: Successful completion of Latin I with a "C" average. Graduation Requirement Fulfilled: World Language

LATIN III**5 CREDITS**

Half Weighted Course: In the third year of Latin, it will be possible for students to concentrate on reading the oration of the Catalinian conspiracy and learning rhetorical devices in both English and Latin. Cicero is of first importance in the study of Latin prose literature because of his pre-eminence in this field. The fiery drama of his orations against the perfidious Cataline is exciting reading, and the background is easily appreciated because of its pertinence to contemporary times. A familiarity with the works of Cicero furnishes a key without which western literature cannot be fully understood and enjoyed.

Prerequisites: Successful completion of Latin II with a "C" average. Graduation Requirement Fulfilled: Elective

LATIN IV**5 CREDITS**

Full Weighted Course: In this course, we read the world's greatest epic poem Vergil's "Aeneid". The "Aeneid" will be as engrossing and stimulating to modern students as it has been to readers for the past 2,000 years. Emphasis in this course is placed on Vergil's timeless and universal appeal, the beauty and perfection of his verse, his power to touch the emotions, the breadth of his humanity, and his profound philosophy and precepts.

Prerequisites: Successful completion of Latin III and a teacher recommendation. Graduation Requirement Fulfilled: Elective

LATIN V**5 CREDITS**

Full Weighted Course: In this course, students read works of some of Rome's greatest poets, including Ovid, Horace, and Catullus. Students will also read an overview of Latin literature ranging in time, scope, and genre.

Prerequisites: Successful completion of Latin IV and a teacher recommendation. Graduation Requirement Fulfilled: Elective



HEALTH AND PHYSICAL EDUCATION

HEALTH AND PHYSICAL EDUCATION

5 CREDITS

The Health & Physical Education Curriculum was developed in accordance with Millville School District policies, as well as the New Jersey Core Content Standards for a Comprehensive Health and Physical Education Program.

In the state of New Jersey, Health and Physical Education is a graduation requirement. Students are required to pass a Health and Physical Education course for every year they are enrolled in high school. At the end of the course, each student will have shared an equal amount of time in both the Health and Physical Education setting.

The Health Curriculum is divided into nine major units (sophomores cover ten major units). The nine major units all students will receive instruction include, Mental and Emotional Health, Nutritional and Consumer Health, Family and Social Health, Community and Environmental Health, Personal Health and Fitness, Growth and Development, Substance Abuse, Diseases and Disorders and Safety & First Aid. In addition to these units, all sophomores will receive instruction in Driver Education. All sophomores at Millville Senior High School will receive also 12-15 hours of experience on the driving simulators. At the completion of the Driver Education unit, students will receive a certificate of completion for Classroom Driver Education.

The Physical Education Curriculum has a major focus in the areas of fitness and exercise. Students will participate in a variety of units that promotes physical activity throughout a lifetime. These lifelong activities include, but are not limited to circuit training, resistance training, cardiovascular fitness training, team games and various other lifelong activities (ex. golf & tennis). All Physical Education classes are co-educational and often a cross section of the various grade levels.

Every effort will be made by the physical education staff to have all students participate in the regular program. A student who is medically excused must have a prescribed form signed by their doctor indicating the activities they can do (i.e. walking, weight training, etc.). If the written notification does not allow for any activity, the student will be required to do a three-page report per day on activities assigned by the teacher to receive credit for the course. Failure to comply will result in no credits being issued.

Final Grades are determined by a combination of a student's Health Grade (40%), Physical Education Grade (40%) and a Comprehensive Final Exam (20%). All grades are determined by using the approved District Grading Scale.

Graduation Requirement Fulfilled: Health and Physical Education



MATHEMATICS

NOTE: All Juniors are required to take a math course, regardless whether or not they have met the three year mathematics requirement. All mathematics courses listed below integrate the use of graphing calculators TI-84 Plus, classroom computers, and other assistive technologies into the curriculum.

LIFE SKILLS MATHEMATICS (Seniors only)

5 CREDITS

This is a course for seniors who have passed the HSPA who still need or want a math course to meet the New Jersey Department of Education's graduation requirements by successfully completing three courses in mathematics. The course will cover the mathematics specific to certain situations/scenarios and further prepare the students for life after high school. Topics to be covered include but are not limited to: checkbook balancing/maintenance; income taxes; consumer interest – credit cards, auto loans/leasing; mortgages – fixed, variable, various terms, buying versus renting; investments – IRA's, compounding interest; paycheck math – hourly, salary, commissions, combinations; and construction/home improvement – estimates (volume, area, supplies), estimates, and payback.

Prerequisite: Must have passed mathematics section of HSPA.

Graduation Requirement Fulfilled: Mathematics

ALGEBRA I

5 CREDITS

This course is offered in high school as the first part of a three-year sequence of courses which satisfies the traditional college entrance requirement and as part of a three-year sequence. This course covers the basic essentials of elementary algebra up to the solution of the quadratic equation. Extensive coverage is given to the area of written problems throughout the course. The student is expected to do homework assignments and to seek additional help from the teacher when experiencing difficulty in selected areas. The student's grade is determined by various class activities, effort, frequent tests and quizzes, and a final examination at the end of the school year. This course has been updated to be in alignment with the new Common Core standards for Mathematics.

Graduation Requirement Fulfilled: Algebra I

GEOMETRY

5 CREDITS

This course is offered in high school as the second part of a three-year sequence of academic courses which satisfies the traditional college entrance requirement and as part of a three-year sequence. The content of this course is centered upon problem solving involving the basic figures of Plane Geometry, such as the triangle, quadrilateral, and circle. Solid figures are also included if time permits. Great stress is placed on student responsibility. The student is expected to do a large amount of homework and to seek additional help from the teacher when experiencing difficulty in selected areas. The student's grade is determined by various class activities, effort, frequent tests and quizzes, and a final examination at the end of the school year. This course has been updated to be in alignment with the new Common Core standards for Mathematics.

Prerequisites: Successful completion of Algebra I

Graduation Requirement Fulfilled: Geometry

ADVANCED GEOMETRY

5 CREDITS

Half-Weighted course. A good understanding of Algebra I is required. This course covers the basic elements of Euclidean geometry, stressing the modern approach to logical analysis. Basic measurements used for Solid Geometry and Trigonometry will be included. Geometry offers a balance of theory and applications; lessons include deductive reasoning and inductive reasoning. This course will cover additional material and move at a faster pace than Geometry. This course has been updated to be in alignment with the new Common Core Content standards for Mathematics.

Note: Summer work is a part of this course and will be distributed prior to the end of the preceding school year.

Prerequisites: A grade of a 'B' or better in Algebra I.

Graduation Requirement Fulfilled: Geometry

ALGEBRA II

5 CREDITS

This course is offered in high school as the third part of a three-year sequence of courses which satisfies the traditional college entrance requirement as part of a three-year sequence. The content of this course is an extension of the fundamental concepts of Algebra I to include new topics like conic sections, exponential equations, logarithms, progressions, and trigonometry. The student is expected to do homework assignments and to seek additional help from the teacher when experiencing difficulty in selected areas. The student's grade is determined by various class activities, effort, frequent tests and quizzes, and a final examination at the end of the school year. This course has been updated to be in alignment with the new Common Core standards for Mathematics.

Prerequisites: Successful completion of Algebra I

Graduation Requirement Fulfilled: Mathematics

ADVANCED ALGEBRA II

5 CREDITS

Half-Weighted Course: This course is offered in high school as part of a three-year sequence which prepares a student of advanced ability to proceed into more difficult areas of high school mathematics. The content of the course is an extension of the fundamental concepts of Algebra I to include topics like conic sections, exponential equations, logarithms, progressions, trigonometry, and other related topics. This course moves at an accelerated pace in order to cover all areas necessary to prepare students for course work in the advanced study of mathematics. The student is expected to do homework assignments and to seek additional help from the teacher when experiencing difficulty in selected areas. The student's grade is determined by various class activities, effort, frequent tests and quizzes, and a final examination at the end of the school year.

Prerequisites: A grade of "B" or better in Algebra I and Geometry is recommended. This course will cover additional material and move at a faster pace than Algebra II. This course has been updated to be in alignment with the new Common Core Content standards for Mathematics.

Note: Summer work is a part of this course and will be distributed prior to the end of the preceding school year.

Prerequisites: A grade of a 'B' or better in Algebra I.

Graduation Requirement Fulfilled: Mathematics



ALGEBRA III / TRIGONOMETRY

5 CREDITS

Half Weighted Course: This course is offered as an option to students who are not recommended for Pre-Calculus or Calculus, yet, who want to pursue a fourth year of high school academic mathematics. The content of this course is an extension of fundamental concepts of Algebra I and Algebra II and will include a half-year study of trigonometry. This study of trigonometry will be supplemented by a final marking period of matrix algebra and polar coordinates. If time permits, probability will be explored. The course moves at an average pace in order to cover all areas necessary for the study of pre-calculus. The student is expected to complete homework assignments and to seek additional help from the teacher when experiencing difficulty in selected areas. The student's grade is determined by various class activities, effort, frequent tests and quizzes, and a final examination at the end of the school year.

Prerequisites: Successful completion of Algebra I, Algebra II and Geometry. A grade of "C" or better in Algebra II is recommended.

Graduation Requirement Fulfilled: Mathematics

PRE-CALCULUS

5 CREDITS

Half Weighted Course: This course is offered to the serious mathematics student who wishes to go beyond the study of Algebra I and II and Plane Geometry. This course should be taken by all students who are planning to pursue a career involving a concentration of mathematics or who finds a certain fascination in the study of mathematics. This course surveys material designed to bridge the gap between Geometry and Calculus. Among the many topics covered in this course are higher degree equations, functional notation, trigonometry, probability, polar coordinates, and elementary statistics. Great stress is placed on student responsibility. Students are expected to do a large amount of homework and to continually seek additional help from the teacher when experiencing difficulty in selected areas. The student's grade is determined by a test at the end of each chapter and a final examination at the end of the school year. This course covers a wide range of topics in one year and must be considered a difficult course. This course has been updated to be in alignment with the new Common Core Content standards for Mathematics.

Note: Summer work is a part of this course and will be distributed prior to the end of the preceding school year.

Prerequisites: A grade of "B" or better in two years of Algebra and one year of Geometry.

Graduation Requirement Fulfilled: Mathematics

STATISTICS

5 CREDITS

Half Weighted. This course offers students an opportunity to receive college credits while they are in high school. **Students enrolled in this course may receive three hours of college credit from Cumberland County College through their dual credit program. (Cumberland County College charges a fee for the college credits.)** The course will emphasize major concepts of statistics and statistical methods. Each concept will be focused on the suitability of the statistical method utilized and the meaning of the result. Applications and problems are appropriate to a wide range of interests.

Prerequisites: Algebra II

Graduation Requirement Fulfilled: Mathematics

ADVANCED PLACEMENT CALCULUS I

5 CREDITS

Full Weighted Course: This course is offered for the serious mathematics student who plans to pursue a career in science, technology, engineering or mathematics. Completion of this course will enable the student to take the Advanced Placement Calculus AB Examination, which can lead to college credits while still attending high school. Students are expected to do a large amount of homework and to continually seek additional help from the teacher when experiencing difficulty. This course covers one semester of college Calculus and must be considered a difficult course.

Note: Summer work is a part of this course and will be distributed prior to the end of the preceding school year.

Prerequisites: A grade of "B" or better in Pre-Calculus.

Graduation Requirement Fulfilled: Mathematics

ADVANCED PLACEMENT CALCULUS II (Pending Board of Education approval)**5 CREDITS**

Full Weighted Course: This course is offered for the serious mathematics student who plans to pursue a career in science, technology, engineering or mathematics. Completion of this course will enable the student to take the Advanced Placement Calculus BC Examination, which can lead to college credits while still attending high school. Students are expected to do a large amount of homework and to continually seek additional help from the teacher when experiencing difficulty. This course covers one semester of college Calculus and must be considered a difficult course.

Note: Summer work is a part of this course and will be distributed prior to the end of the preceding school year.

Prerequisites: A grade of “B” or better in AP Calculus I

Graduation Requirement Fulfilled: Mathematics



SCIENCE

COURSE REQUIREMENTS FOR SCIENCE

New Jersey has instituted specific course requirements for all high school students. Additionally, there is an end of course assessment for all students in biology.

NOTE: Where prerequisites are listed for a science course, it is because experience has shown that the knowledge and skills acquired in the prerequisite course are necessary for success in the course listed. If a student feels that he/she is qualified to take a course even though all of the prerequisites have not been strictly met, then the student must request a science department form for admittance without a prerequisite. Each case will be evaluated on an individual basis.

PHYSICAL SCIENCE

5 CREDITS

This course will address the New Jersey Science Core Curriculum Standards in the areas of Chemistry and Physics. This course, together with Biology I, will provide instruction in all of the New Jersey Core Curriculum Standards in Science. This course is provided for students who have not satisfied the Chemistry requirement of a "C" or better in Algebra I or students who do want to commit to taking both Chemistry and Physics. This course will provide a good background for students who need to take Chemistry or Physics later. Students should be aware that most colleges will not accept this course to fulfill entrance requirements for a lab science. A student may not take this course after they have received credit for Chemistry or Physics.

Prerequisite: Successful completion of Biology I. (Not available to Freshmen)

Graduation Requirement Fulfilled: Science

ENVIRONMENTAL SCIENCE

5 CREDITS

The first unit in this course involves how living things are inter-related and how man can upset the balance of nature. The remaining units deal with problems facing us in the world today and how we can deal with them. Major units include: Climate Change; Food Changes Through Science and Technology; Water; Renewable Energy and Waste; Land Use and Minerals. Real case studies are also used throughout the text. This course focuses on real problems that must be dealt with if we are to survive. Students will be involved with hands-on projects and activities.

Prerequisites: Successful completion of Biology I

Graduation Requirement Fulfilled: Science

BIOLOGY I

5 CREDITS

This course will introduce students to many important aspects of life science. Major topics covered are: cell structure and function, the classification of living things, how organisms carry on life processes, heredity, disease, and ecology. Students will be actively involved with hands-on activities and laboratory activities for each of the major topics. Laboratory work includes the observations of various organisms, making and studying microscope slides, along with a variety of other activities including discussion and research of controversial topics.

Graduation Requirement Fulfilled: Biology

ADVANCED BIOLOGY I

5 CREDITS

Half weighted course. This course is offered only to students recommended by their 8th grade science teacher. Advanced Biology I is an academic course for students who have demonstrated an above average aptitude or interest in science during the elementary school years. Advanced Biology covers all the areas listed for Biology I as well as additional laboratory and research experiences. Students are required to complete long term research and experiments.

Graduation Requirement Fulfilled: Biology

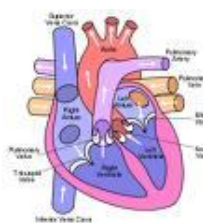
MICROBIOLOGY (BIOLOGY II)

5 CREDITS

Half Weighted Course: This course is designed for those students who enjoy Biology and wish to pursue it further. The focus for the course is examining microorganisms such as bacteria, viruses, fungi, and protists. Students will research the role of microorganisms in their everyday lives as well as their pathogenic effects which require a variety of treatments. Certain topics included in Biology II are reviewed and explored in more depth in regards to microbiology such as the Cell Structure, Immunity, Environmental Science, Genetics, DNA and Technology. The politics, economics, and ethics relating to medical issues and treatments will also be covered. Cell structure will involve a comparison between prokaryotes and eukaryotes in addition to evolution's role in an organism's development. Genetics will involve the inheritance of traits from parent to offspring, as well as DNA structure and protein synthesis. Labs are an important component of all topics covered in this course and are more sophisticated than those performed in Biology I. Labs will include experiments involving handling, staining, and the identification of bacteria and learning the techniques involved in water analysis chemicals and bacteria. ***Since the focus is on microorganisms, there are no dissections performed in this course.*** Formal lab reports, as well as individual projects, may be required. Students will use the Internet to research multiple topics to be presented in a variety of media.

Graduation Requirement Fulfilled: Science

Prerequisites: Successful completion of Biology I and Chemistry with a 'C' or above to be enrolled in Chemistry concurrently.



ADVANCED PLACEMENT BIOLOGY

10 CREDITS

Full Weighted Course: This course offers students a unique opportunity to receive college credits while they are in high school. Many colleges require a certain number of hours in science as part of their general studies requirements for college graduation. By fulfilling this requirement in high school, a student can take a lighter load in college, graduate early, or get a head start in a major. The advanced placement course of study is followed so a student who might choose to take the Advanced Placement Examination will be prepared to do so. Laboratory work is an important component of this course, and both long and short-term experiments are undertaken. Students learn to collect data, interpret the results, make graphs, and write formal laboratory reports. Students not only learn Biology in this course, but are given practice in developing skills they will need to do well in college. These skills include: drawing conclusions from data, expressing themselves clearly in writing, applying knowledge to new situations, and developing good study habits and test-taking skills. A student's ability and willingness to work on a college level are essential elements in this course.

Prerequisites: A grade of "B" or better in Biology I and Advanced Chemistry and teacher recommendation. Students considering this course should have a strong academic background with a grade point average of at least 3.0. **Summer assignments are required for this course and will be distributed prior to the end of the preceding school year. This course is a dual-credit course with Cumberland County College. (Cumberland County College charges a fee for college credits.)**

Graduation Requirement Fulfilled: Science

ANATOMY AND PHYSIOLOGY I

5 CREDITS

This course exposes students to an in-depth understanding of human anatomy and physiology as aligned to Cumberland County College's Anatomy and Physiology I course. Students will be prepared to enter into professions and fields involving medical applications. Topics covered will include: biochemistry, cell biology, tissues, integumentary system, skeletal system, muscular system, and the nervous system/senses.

Prerequisites: Successful completion of Biology I and Chemistry I

Graduation Requirement Fulfilled: Science

ANATOMY AND PHYSIOLOGY II

5 CREDITS

The course exposes students to an in-depth understanding of human anatomy and physiology as aligned to the Cumberland County College's Anatomy and Physiology II course. Students will be prepared to enter into professions and fields involving medical applications. Topics covered will include: cardiovascular system, respiratory system, nervous system, digestive system, urinary system, the reproductive system, and the endocrine system. **This course is a dual-credit course with Cumberland County College Human Biology (4 credits). (Cumberland County College charges a fee for the college credits.)**

Prerequisites: A grade of 'B' or better in Anatomy and Physiology I

Graduation Requirement Fulfilled: Science

FORENSIC SCIENCE (CRIMINALISTICS)

5 CREDITS

This course is designed for students who are interested in pursuing a career in the forensic sciences, law, law enforcement, private or governmental laboratories, jails and corrections, and the Medical Examiner's office. Forensic Science focuses on scientific method techniques from the fields of biology, chemistry, and physics, and applies them to the resolution of legal problems. Students will develop a foundation of knowledge and skills needed to meet the scientific and practical demands of the forensic profession. Disciplines that will be covered in this course include medico-legal investigations of death, criminalistics, pathology, forensic psychology, profiling, criminal procedure, crime scene photography, crime scene investigations, computer forensics, fingerprint analysis, and forensic entomology. **This course is a dual-credit course with Cumberland County College. (Pending CCC approval; Cumberland County College charges a fee for the college credits.)**



Prerequisites: Biology I and Chemistry I.

Graduation Requirement Fulfilled: Science

CHEMISTRY

5 CREDITS

This course is designed to prepare students for science-related careers such as licensed practical nurses, medical technicians, etc. and also to partially fulfill the high school science graduation requirement. The same basic topics as in Advanced Chemistry - scientific mathematics, atomic structure, naming compounds, organic chemistry, chemical reactions, stoichiometry, gas laws, solutions, acids, and bases are covered in this course, but in less detail and with less mathematical emphasis. Emphasis is also placed on laboratory experiences and the development of problem solving techniques.

Prerequisites: Algebra I and Biology.

Graduation Requirement Fulfilled: Science

ADVANCED CHEMISTRY

5 CREDITS

Half Weighted Course: Topics covered in this course include scientific mathematics, atomic structure, naming compounds, organic chemistry, chemical reactions, stoichiometry, gas laws, solutions, acids, and bases. Emphasis is also placed on laboratory experiences and the development of problem solving techniques.

Prerequisites: A grade of "B" or better in Algebra 1 and successful completion of Biology or instructor's permission.

Graduation Requirement Fulfilled: Science

ADVANCED PLACEMENT CHEMISTRY**10 CREDITS**

Full Weighted Course: This course offers students an opportunity to receive college credits while they are in high school. **Students enrolled in this course may receive eight hours of college credit for Chemistry 101-102 from Cumberland County College. (Cumberland County College charges a fee for the college credits.)** Cumberland County College requires a grade of “C” during the first semester to enroll for college credit the second semester. Many colleges require a certain number of hours in science as part of their general studies requirements for college graduation. By fulfilling this requirement in high school, a student can take a lighter load in college, graduate early, or get a head start in a major. The advanced placement course of study is followed so a student who might choose to take the Advanced Placement Examination will be prepared to do so. The ten classes each week consist of seven lecture periods and three laboratory periods. The first three marking periods of the course material consist of a review of basic chemistry principles, and new topics such as thermodynamics, molecular geometry, equilibrium, and kinetics. The fourth marking period will be an introduction to college organic chemistry. Laboratory work is stressed in this course and formal laboratory reports are required.

Prerequisites: A grade of “B” or better in Advanced Chemistry or recommendation from a science teacher.

Graduation Requirement Fulfilled: Science

PHYSICS I**5 CREDITS**

This course is designed to teach physical principles. Topics covered in this course are metrics and mechanics (vectors, motion, forces, two dimensional motion, work, energy, momentum). Laboratory exercises are also conducted on a regular basis throughout the course. This would be a good course for those students planning allied health programs.

Prerequisites: Successful completion of Algebra 1 and Chemistry

Graduation Requirement Fulfilled: Science

ADVANCED PHYSICS I**5 CREDITS**

Half Weighted Course: This course is offered to college preparatory students who have an aptitude in mathematics and who are interested in pursuing careers in engineering, physical sciences, and medical fields. In this course, students study the scientific concepts of vectors, motion, and mechanics (vectors, motion, forces, two dimensional motion, work, energy, momentum). Laboratory experiments are performed in conjunction with the lecture material and are included as an integral part of the student’s grade. Related mathematical problems are also emphasized in this course.

Prerequisites: Successful completion of Geometry with a grade of “A” or “B”, and Chemistry.

Graduation Requirement Fulfilled: Science

PHYSICS II**5 CREDITS**

This course will offer additional topics in Physics that are not covered in Physics I but on a level for the non-Physics or Engineering majors, as well as a more in-depth study of previously covered topics. This course will be non-Calculus based. Topics covered will include: waves, sound, light electricity and magnetism, fluid dynamics, thermal energy, relativity, rotational motion, and current electricity. There are several areas of study that would benefit from additional background in Physics but don’t require Calculus based Physics.

Prerequisites: Physics I (A or B grade)

Graduation Requirement Fulfilled: Science

ADVANCED PLACEMENT PHYSICS I MECHANICS**5 CREDITS**

Full Weighted Course: This is a second year course designed for students who have successfully completed Advanced Physics and who are seriously interested in science or Engineering. The topics considered in this course will enhance the skills and content already learned in the first year course and include light, sound, energy waves of all types, and mechanics for mastery of the content skills. Teaching techniques, in this course, seek to develop higher level thinking skills. This course will prepare students to take the Advanced Placement Physics Test entitled “Advanced Placement Physics C Mechanics”.

Prerequisites: A grade of “B” or better in Advanced Physics; AP Calculus or concurrently enrolled in AP Calculus.

Graduation Requirement Fulfilled: Science

ADVANCED PLACEMENT PHYSICS II ELECTRICITY AND MAGNETISM**5 CREDITS**

(Pending Board Approval) Full Weighted Course: This is a third year course designed for students who have successfully completed advanced Placement Physics I and who are seriously interested in science or engineering. The topics considered in this course will enhance the skills and content already learned in the second year course and include Electricity and Magnetism for mastery of the content skills. Advanced Placement Physics Test entitled “Advanced Placement Physics C Electricity and Magnetism”.

Prerequisites: Completion of AP Physics I and AP Calculus.

Graduation Requirement Fulfilled: Science

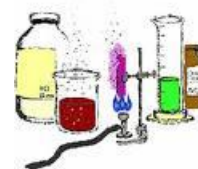
MEDICAL TERMINOLOGY**5 CREDITS**

This course will introduce the language used with the anatomical structures, body systems, medical processes and procedures in health care and professions to students of all levels. This program will emphasize word roots, combining forms, abbreviations, prefixes, and suffixes. The basic purpose of this class is to provide a student with a working knowledge of medical terminology. This course will increase a students’ vocabulary tremendously and is valuable for those who wish to further study science and/or enter the health field. Medical terminology enables students to develop skills and information literacy through critical thinking activities, teamwork, collaboration, and a hands-on approach to learning. **(For Juniors and Seniors Only)**

Students may be eligible to earn dual credit at Cumberland County College upon the successful completion of this course.

Prerequisite: Biology 1

Graduation Requirement Fulfilled: Science



SOCIAL STUDIES

ADVANCED PLACEMENT MACROECONOMICS

5 CREDITS

Full Weighted Course: This course is designed to provide students with a thorough understanding of economics as a whole. Students taking the course can expect to learn how the measures of economic performance, such as GDP, inflation and unemployment, are constructed and how to apply them to evaluate the macroeconomic conditions of an economy. Students will also have ample opportunities to examine the impact of international trade and international finance on national economies. Various economic schools of thought are introduced as solutions to economic problems are considered. A major goal of the class is to prepare for and to take and pass the AP exam in Macroeconomics. As in a college course, it will be expected that a good deal of the student's learning will take place by their own efforts outside the class room. **Summer assignments are required for this course and will be distributed preceding the school year.**

Prerequisites: Ability to do independent research and good study skills

PSYCHOLOGY/SOCIOLOGY

5 CREDITS

This semester course combines both Psychology & Sociology in a general survey format. Psychology topics that may be covered include: Biological Determinants of Behavior, Learning Theory, Personality Theory, Freud's Psychoanalysis, Abnormal Psychology, Sensation & Perception, as well as Social Psychology. Sociology topics may include Sociological Perspectives, Cultural Analysis, Societal Structure, Race & Ethnic Relations, and Delinquency. Students interested in Behavioral Sciences and the Humanities are urged to consider this class. Career areas that are associated with this course include: Education, Penology, Law Enforcement, Psychology, Social Work, as well as Business Management and Human Resources. Grades are determined in a traditional manner, and there are **NO** exam exemptions.

ADVANCED PLACEMENT PSYCHOLOGY

5 CREDITS

Full Weighted: This course will allow students to make an in-depth, systematic study of Psychology. The study of human behavior and mental processes will require a student to devote time and energy to reading, analyzing, and summarizing relevant materials. Topics covered include: Biological Determinants of Behavior, Learning Theory, Personality Theory, Development, Motivation, Sensation & Perception, Memory, Abnormal Psychology, & Treatments, as well as Social Psychology. A goal of the course is to prepare the student for the annual A.P. Psychology exam. **Summer assignments are required for this course and will be distributed preceding the school year. No exam exemptions are granted. Students may be eligible for dual credit at Cumberland County College upon successful completion of this course.**

ADVANCED WORLD HISTORY

5 CREDITS

Half-weighted: This course is designed for the student who has a special interest in world history and cultures. Students will be expected to do more independent readings and a variety of research projects.

Prerequisites: Teacher Recommendation, "B" average or better in previous college preparatory social studies courses.

Summer assignments are required for this course and will be distributed preceding the school year.

Graduation Requirement Fulfilled: World History

CP UNITED STATES HISTORY I

5 CREDITS

CP United States History I covers all of the social, political, economic and geographic forces that shaped American history from the pre-colonial period to 1930. There is a special emphasis on American government and citizenship. In doing so, this course is aimed at developing a sense of patriotism and a desire to accomplish the ultimate aims of good citizenship. The student's grade is determined by class participation, test scores, homework/classwork assignments, essays, projects, and computer labs.

Graduation Requirement Fulfilled: United States History

CP WORLD HISTORY

5 CREDITS

This course is designed for students to gain an understanding of the social, political, economic, religious, and military characteristics of various civilizations and relate it to contemporary times. Areas covered include: the importance of studying history, impact of change on society, human need for power and control, the connection between geography and history, how the Enlightenment ideas lead to Revolution, impact of change on society and culture, effects of nationalism on consolidation of governments, significance of World Wars, impact of globalization on individual nations, causes and effects associated with Indian independence, and contemporary issues in Europe, North America, Latin America, Africa, Middle East, and Asia. The student's grade is determined by class participation, tests, homework/class work assignments, essays, projects, and computer labs.

Graduation Requirement Fulfilled: World History

ADVANCED UNITED STATES HISTORY I

5 CREDITS

Half-weighted: This course is for the serious history student who excels in reading and writing and possesses a passion for history. Students will be expected to do more independent reading and will be required to answer document-based questions using primary sources. This is an accelerated course which includes a more in-depth look at history, government, economics and geography and the influence each has on American History. Your involvement in community services outside the classroom will play a major role in acquiring an overall grade. The goal of this course is to prepare students for Advanced U.S. II and the Advanced Placement History class. **Summer assignments are required for this course and will be distributed preceding the school year.**

Prerequisites: At least a "B" average in a college preparatory class of World History and teacher recommendation.

Graduation Requirement fulfilled: United States History

CP UNITED STATES HISTORY II

5 CREDITS

This course covers all of the social, political, economic and geographic forces that shaped American history from 1930 to the present day. The course of study includes a chronological study of American history within a global context and a thematic study of American domestic and foreign policy issues such as economics, the environment, demographics and social issues. The aim is for students to make connections between the present conditions found in the United States and how they relate to our nation's past. Once again, special emphasis is placed on the organization and responsibilities of Federal, State and local governments.

Prerequisites: Successful completion of United States History I

Graduation Requirement Fulfilled: United States History

ADVANCED UNITED STATES HISTORY II

5 CREDITS

Half-weighted course: This course is designed for students who wish to excel in the study of American History from 1930 to the present day. A detailed study of federal, state and local government is also included. This accelerated-pace course incorporates more in-depth outside readings and information. Students are taught how to answer document-based questions using Primary Sources. This course also specializes in developing individual research skills and the completion of a variety of research projects. The goal of this course is to prepare students for success in the Advanced Placement History class. **Summer assignments are required for this course and will be distributed preceding the school year.**

Prerequisites: At least a "B" average in a college preparatory section of United States History I and teacher recommendation

Graduation Requirement Fulfilled: United States History

ADVANCED PLACEMENT UNITED STATES HISTORY

5 CREDITS

Full Weighted Course: This is a course which can culminate in earned college credits awarded by most colleges and universities upon successful completion of a national examination, and is expected to be taken as part of this course. This course is designed for the gifted or highly motivated student who possesses a high degree of interest in history and humanities. This course covers all aspects of United States history, from pre-colonial times to the present, with heavy emphasis on the 1790's, 1850's, 1890's, and 1930's. Each student's grade is determined by standardized tests, essays, and periodic quizzes on assigned readings from the text. This course is recommended for 12th grade college preparatory students who possess adequate writing and research skills, and who also have a curiosity and ambition for college level studies in history. Students who wish to sign up for this course must obtain an A.P. Teacher Referral Form and have it signed by their present or previous Social Studies teacher. This form will be required when registering for this course. **Summer assignments are required for this course and will be distributed preceding the school year. This course is a dual-credit course with Cumberland County College. (Cumberland County College charges a fee for college credits.)**

Prerequisites: Successful completion of CP United States I and CP United States II with a grade of "B" or better and teacher recommendation. Graduation Requirement Fulfilled: Elective

DIVERSITY AND TOLERANCE

5 CREDITS

This course focuses on historical and current issues, challenges, and opportunities which our students must address in order to be well prepared for a future which requires an understanding and appreciation of multiculturalism. Specific issues include, but not limited to, race/ethnicity, civil rights, discrimination, genocide, and immigration. Students will also predict what they believe will be the dividing issues of the future and how we can be prepared to address them in order to teach diversity and tolerance.

Prerequisite – Two years of history-any combination of World History, US History I, and or US History II.

ADVANCED PLACEMENT WORLD HISTORY (Pending Board of Education approval)

5 CREDITS

Full Weighted Course: AP World History is a college-level course designed to develop and create an understanding of the development of global processes and how human societies interact and influence each other. This course will involve the use of both factual knowledge and critical analysis of historical events and subject matter. In addition, AP World History will focus on the causes and consequences of historical events and the comparison of the different societies of the world. Students will be presented a balanced level of information from the Americas, Africa, Asia, Oceania and Europe. Students will be expected to read a college textbook independently, participate in discussions based on historical sources and modern interpretations of the past and write to argue, to compare and to show change over time. This course offers student's the ability to take the AP World History exam in May for possible college credit.

SPECIAL PROGRAMS

AVID (ADVANCEMENT VIA INDIVIDUAL DETERMINATION)

5 CREDITS

The AVID course is an elective class for students who are college bound. While concurrently enrolled in a college-prep course of study, students learn strategies to enhance academic success. They ensure success in college-prep coursework. Students work collaboratively in tutor-led groups twice a week. Note-taking, writing, speaking, reading, and test-taking skills are strengthened through various strategies presented to the students. In addition, the course includes college motivational activities and family/community events. The AVID curriculum focuses on Writing, Inquiry, Collaboration, and Reading (WIC-R) through the AVID High School Libraries in both teacher and tutor led activities. In the junior year students begin to narrow their focus on a potential college major as well as potential schools of interest. Students interested in the AVID program should have a 2.0-3.5 GPA, no discipline problems, and good attendance. Students should also be dedicated to continuing their education at a four-year college or university after graduation. Interested students will be interviewed by the AVID selection committee during the early spring – prior to the start of the course selection process.



SPECIAL EDUCATION

The administration and staff of Millville Senior High School and Memorial High School recognize that students with disabilities require special programs based on their abilities, interests, and needs. It is our conviction that all students should be provided with the experiences necessary to develop their intellectual, vocational, and social competencies so that they may become productive and independent citizens.

Our special education staff provides programs for classified students which support the diagnostic prescriptions of the Child Study Team as reflected in Individualized Educational Plans (IEPs). Resource room replacement programs are offered in Language Arts, Mathematics, Science, and Social Studies. In-class support teachers help classified students to be successful in the general education environment. Supplemental instruction is offered as a support for students with disabilities who are mainstreamed in any core content area; assistance is provided with classwork, homework, organizational skills, and test preparation. Whenever possible, students with disabilities are mainstreamed to promote their academic, social, and emotional growth.

Every effort is made to educate all students in the least restrictive and most appropriate environment.



CUMBERLAND COUNTY TECHNICAL EDUCATION CENTER

CCTEC Programs

Shared-Time Course Descriptions

Auto Collision Repair Technology 1/2

Making collision-damaged cars and light trucks look like new again is the specialty of the Auto Body Repair business. Unlike Auto Mechanics, Auto Body technicians learn how to estimate cost of repairs, disassemble, repair and refinish vehicles using state-of-the-art tools and techniques. By working on their own vehicles, customers' cars or even large vehicles like ambulances or fire vehicles, Auto Body students get the training they need to work in dealer-based and independent body shops. Graduates are eligible to take ASE certification tests.

Automotive Technology 1/2

Auto Technology is an ASE-Certification program that offers hands-on training to repair and maintain the mechanical and electronic systems on board today's vehicles. Using industry-standard electronic diagnosis and repair equipment, Auto Technology students can become ASE-certified in Brakes, Electrical/Electronic Systems, Steering and Suspension, Engine Performance and Engine Repair. Most top-quality shops employ ASE-certified technicians. Auto Technology students may work on their own vehicles.

Carpentry 1/2

Carpentry provides a variety of high-demand framing and joining skills for the construction trades. CCTEC's program is one of the few remaining Carpentry programs who build full-size homes as part of their instructional program. Carpentry uses classroom instruction and hands-on construction projects to prepare students for a variety of specialties in the carpentry field. Many graduates enter the Carpenter's Union Apprenticeship Program after graduation while others pursue work with independent contractors. Carpentry uses industry standard tools and techniques to prepare students for employment in the construction industry.

Certified Clinical Medical Assistant 1/2

The Certified Clinical Medical Assistant program provides students with the necessary clinical skills required to function as a vital member of a health care service team. They perform the minor clinical and administrative duties that make a medical facility run smoothly and successfully, ensuring the best treatment experience for both doctor and patient. Students will become familiar with all aspects related to being a qualified Medical Assistant. The program will cover Anatomy, Physiology and Nutrition. Additionally, students will practice with equipment and perform hands-on labs including introduction to the function and proper use of medical equipment. After successfully completing the program, students will receive a CCMA certificate.

Certified Nursing Assistant 1/2 (formerly Allied Health)

The Certified Nursing Assistant is a program that introduces students to the basic skills essential for success as a healthcare provider. Students learn anatomy and physiology, direct patient care skills such as vital signs, bed-making, bathing, nutrition and therapeutic diets, etc. Our state of the art classroom/lab provides students with the equipment to successfully and safely learn these skills. Once students are competent in their skills, they care for residents at a local nursing home. Most students are able to obtain part time or full time employment once they have mastered their skills. 100% job placement is highly obtainable. Certified Nurse Assistant students may also earn up to 22 college credits at the University of Medicine and Dentistry of NJ.

Computer Repair and Networking 1/2

Computer Networking is the perfect course for the computer lover who wants to get A+ and Network + certifications while learning how to program routers, switches and hardware that makes the Internet work. Our Computer Networking program offers hands-on training to both high school and adult students in our modern, well-equipped lab. Practical, real-world projects and simulations help our students develop the IT skills in high demand throughout local industry.

Cosmetology 1/2/3

The CCTEC high school Cosmetology program offers state-approved training for the New Jersey Cosmetology **license**. Our more than 1,000 hour program offers classroom and hands-on training in hair, skin, nail and barbering techniques. Students practice skills on mannequins, each other and then outside customers in our school salon. Cosmetology students may work in private shops with their student permit once they complete 60% of their program. High School students must attend Cosmetology for three years to complete the program.

Culinary Arts and Hospitality 1/2

Culinary Arts and Hospitality uses the classic French model of Culinary Arts to prepare students to work in fine food establishments including restaurants, casinos, catering facilities and bakeries. Our Culinary Arts and Hospitality program provides both front of the house (customer service, banquet serving) and back of the house (food preparation, baking, menu planning, sanitation and food costing) skills. Our chef instructors encourage students to compete in culinary competitions to improve their skills. Graduates may continue training in union apprenticeship programs. Culinary Arts and Hospitality students work in a modern commercial kitchen, an in-school restaurant and a banquet room to hone their skills.

Dental Assisting 1/2

Dental Assisting is a new, high-school level course that will prepare you for a job as a chair side dental assistant in offices ranging from General Dentistry to Orthodontics or Oral Surgery. The course includes classroom instruction and hands-on training in our lab and local dental practices. Our course is approved by the American Dental Association (ADA) and offers students an opportunity to become a Certified or Registered Dental Assistant.

Digital Graphics 1/2

The graphics field is the fourth largest industry in the US and perfect for the person with a creative or artistic interest. Digital Graphics students use Macintosh computers to layout and design ads, brochures, newsletters and other printed material. Our students use industry-standard software from Photoshop to Quark Express and In-Design to create their work. Offset press and electronic printers are used to produce student projects. Digital Photography is also part of this program along with advanced image editing skills. Bindery skills—from cutting to folding and stitching are also presented in this program.

Electrical Technology 1/2

Electrical Technology provides training for the power industry. Through classroom instruction and hands-on training, you'll learn electrical fundamentals, residential and commercial wiring, Electrical Code compliance, print reading, electrical maintenance and troubleshooting. Our electrical students do live work in our building and all the power work in the ranch house we build each year. Many Electrical students continue their training in the Electrical Union Apprenticeship Program after graduation while others pursue work with independent contractors.

Firefighter I (SENIORS ONLY): THIS COURSE IS REPLACING THE EMS PROGRAM

This one-year course corresponds with the state of New Jersey Firefighter I course. With a combination of classroom and hands-on participation, the new firefighter candidate will master the basic tasks of firematics. A written and a proficiency exam will be given at the end of the course. A passing grade of 70% is required by the State. Some topics covered are Right-to-Know, safety, medical care, knot tying, ICS-100, fire behavior, chemistry of fire, SCBA's, extinguishers, forcible entry, ladders, rescue procedures, ventilation, water supply, hose and nozzle handling, salvage and overhaul, sprinklers, communications, Blood borne Pathogens, Wildland Fires, Utility emergencies, Thermal imaging camera, rope rescue and Haz-Mat Awareness

Law Enforcement and Homeland Security 1/2

This practical course prepares students for careers in criminal justice and intelligence specialties. The program covers criminal justice, security management, intelligence and some medical and health studies as well as national security, international relations, and public management. The program also covers emergency management, security management, and communications the role of the federal government and constitutional law. An added feature of the course is Geospatial Information Systems—using satellite technology to develop security databases for use in law enforcement and emergency response situations.

Mechatronics, Robotics, & Automation Engineering

Computer Integrated Manufacturing (CIM) introduces students to the rapidly developing fields of automated manufacturing, industrial robotics, numerical control programming and materials handling. Students learn how different types of computer programs are used in industry to control machines and perform quality control inspections. Student activities will include systems planning, writing robot control programs, develop open-ended robotics programs and creating solutions to typical automated industrial tasks via hands-on projects and computer simulations.

Pharmacy Technician Assistant

Pharmacy Technicians assist and support licensed pharmacists in providing health care to patients. This program will prepare students for entry-level positions by teaching medical and pharmaceutical terminology, basic anatomy related to pharmacology medications, and pharmaceutical calculations. The Pharmacy Technician Program will give students hands-on practice in retail pharmacy procedures through a lab module. In the lab module students practice process procedures of reading physicians orders and apply knowledge in filling mock prescriptions. The curriculum also includes the ethics of pharmacy practices about prescription medications and patient care interactions.

Plumbing and HVAC Technology 1/2

Plumbing and HVAC (Heating, Ventilation and Cooling) Technology offers training for year-round employment in the environmental controls field. Plumbing and HVAC students' progress through classroom and hands-on instruction in water distribution and waste water disposal, residential and industrial heating systems and finally residential and commercial air conditioning and refrigeration systems. Plumbing and HVAC students do live work in our building and on the ranch houses our construction trades students build each year. Some graduates continue their training in the local union apprenticeship program while others pursue work with independent contractors.

Sports Medicine 1/2

Students will explore the careers that are available to them in the world of sports. Students will be exposed to and able to practice skills involved in the areas of Athletic Training, Personal Training, Strength and Conditioning, Physical Therapy, Sports Management, and Orthopedics. Students who successfully complete the program will receive certification in CPR/First Aid/AED and a Certified Personal Trainer Certification through NASM (National Academy of Sports Medicine). In addition, students will have the opportunity to receive a Sports Performance Specialist (PES) certification upon completing their second year.

Welding Technology 1/2

Welders assemble metal structures—from race cars to railroad tracks—using high heat and a steady hand. They work with a variety of metals—aluminum, steel, brass and stainless steel—and machines that create the high temperatures needed to join metal parts without using nuts, bolts or screws. Welders are employed in the construction, ship building, energy, automotive, aircraft and building maintenance industries. This program offers AWS certification. Demand for skilled welders is strong—with placement topping 90% each year

Special Needs Courses

(Admission to these courses is completed through your District's Child Study Team or Guidance Counselor.)

STRIVE (Full-Time Program)

Students' Training in Vocational Education is a unique program that combines independent living skills with occupational training to serve cognitively impaired students ages 14 through 21. Occupational training is provided both on-site and at businesses around the county. STRIVE provides year round services-including instructional and recreational activities. STRIVE students are actively involved in Special Olympics competitions and often take enrichment trips to area historical and entertainment destinations. Applications can be obtained is through your Child Study Team.